

**CALIFORNIA  
MOTOR VEHICLE STOCK, TRAVEL AND FUEL  
FORECAST**



**California Department of Transportation**

**Division of Transportation System Information**

**November 2004**

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MOTOR VEHICLE STOCK, TRAVEL AND FUEL  
FORECAST**

GOVERNOR ARNOLD SCHWARZENEGGER  
STATE OF CALIFORNIA

SUNNE WRIGHT-MCPEAK, SECRETARY  
BUSINESS, TRANSPORTATION AND HOUSING AGENCY

WILL KEMPTON, DIRECTOR  
DEPARTMENT OF TRANSPORTATION

DIVISION OF TRANSPORTATION SYSTEM INFORMATION  
OFFICE OF TRAVEL FORECASTING AND ANALYSIS  
MODELING AND TRAVEL ANALYSIS BRANCH

NOVEMBER 2004

This report was prepared in cooperation with the  
U.S. Department of Transportation  
Federal Highway Administration

# **CALIFORNIA MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECAST**

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## Table of Contents

	Page
List of Tables and Figures . . . . .	ii
I.     SUMMARY . . . . .	1
II.    INTRODUCTION . . . . .	6
III.   MVSTAFF PROCESS OVERVIEW . . . . .	7
IV.    FORECAST ASSUMPTIONS . . . . .	10
V.     FORECAST RESULTS . . . . .	20
A.     Motor Vehicle Stock . . . . .	20
B.     Vehicle Miles of Travel . . . . .	24
C.     Vehicle Fuel Consumption . . . . .	28
D.     Vehicle Fuel Economy . . . . .	32
REFERENCES . . . . .	35
APPENDIX A: Vehicle Body Type Definitions . . . . .	36
APPENDIX B. California Vehicle Miles/Kilometers of Travel By County & Road System 1990, 1995, 2000, 2003, 2005, 2010, 2015, 2020 and 2025 . . . . .	37
APPENDIX C. California Vehicle Fuel Consumption By County & Fuel Type 1995, 2000, 2005, 2010, 2015, 2020 and 2025 . . . . .	56
APPENDIX D. California Truck Miles of Travel By County & Road System 2000, 2005, 2010, 2015, 2020 and 2025 . . . . .	64

## List of Tables and Figures

<u>Table No.</u>		<u>Page</u>
1	California Total Vehicles . . . . .	21
2	California Total Vehicle Miles of Travel. . . . .	25
3	California Total Vehicle Fuel Consumption . . . . .	29
4	California Total Vehicle Fleet Fuel Economy . . . . .	33
<u>Figure No.</u>		
S1	Motor Vehicle Stock, Travel and Fuel Forecast . . . . .	3
S2	Percent Change by Decade in Annual VMT and Main Variables Affecting it . . . . .	4
S3	California Total Vehicle Miles of Travel 1965 – 2025. . . . .	5
S4	California Total Vehicle Fuel Consumption 1965 - 2025 . . . . .	5
1	Motor Vehicle Stock, Travel and Fuel Forecasting Process . . . . .	9
2	California Total Population 2003 - 2025 . . . . .	12
3	U. S. Consumer Price Index 2003 - 2025 . . . . .	13
4	California Total Personal Income in 1967 Dollars . . . . .	14
5	California Personal Income Per Person in 1967 Dollars . . . . .	15
6	Gasoline Price Per Gallon in 1967 Dollars. . . . .	16
7	Prime Lending Rate 2003 - 2025 . . . . .	17
8	California Total Vehicles 2003 - 2025 . . . . .	19
9	California Total Vehicles by Body Type . . . . .	22
10	California Total Vehicle Miles of Travel . . . . .	23
11	California Vehicle Miles of Travel by Body Type . . . . .	26
12	California Total Vehicle Fuel Consumption . . . . .	27
13	California Vehicle Fuel Consumption by Body Type . . . . .	30
14	California Total Vehicle Fleet Fuel Economy . . . . .	31
15	California Vehicle Fleet Fuel Economy by Body Type . . . . .	34

### Conversion Factors

The following factors are used in this report to convert U.S. units to metric units.

$$\text{Kilometers} = 1.609 \times \text{Miles}$$

$$\text{Liters} = 3.785 \times \text{Gallons}$$

## I. SUMMARY

This is the twentieth of a series of California Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) reports. The reports provide historical estimates and forecasts of the number of registered vehicles, miles of travel, fuel consumption, and fuel economy on a statewide basis. The forecasts are disaggregated into six vehicle body types (autos, four weight classes of trucks, and motorcycles) and two fuel types (gasoline and diesel).

The forecasts are primarily intended for short and long range statewide transportation planning, traffic forecasting and projections of revenues from excise taxes on fuel. In response to numerous requests, the statewide vehicle miles of travel (VMT) forecasts are distributed among the 58 counties and two major road systems (State Highways and all "Other" public roads) for substate planning, including transportation and air quality modeling and analysis. For the purpose of air quality conformity analysis the 1990 county VMT table is included in the appendix. Also included in this report are the vehicle fuel consumption (VFC) distributions by the 58 counties and the two-fuel types gasoline and diesel.

The MVSTAFF process requires long-term projections of statewide population, economic growth (total personal income), fuel prices, inflation, and interest rates. For this forecast, population numbers were obtained from the latest California Department of Finance (DOF) population projection reports (Ref. 3 and 4). Income projections and other variables, including fuel price, were derived from the September 2004 UCLA Anderson Forecast for the Nation and California (Ref. 1). The MVSTAFF forecast, therefore, reflects the same scenario superimposed on the DOF population and the existing legislation regarding current and future sales and excise taxes on fuel. The socioeconomic assumptions are further documented in the report.

The forecast results are summarized in Figure-S1. For the current year (2004), total vehicle miles of travel (VMT), and vehicle fuel consumption (VFC) are projected to increase by 2.03%, and 2.17% respectively, from the previous year.

In 2005, the economy is expected to increase slightly. Real total personal income per person increases by 2.16%. However, total vehicles, VMT and fuel consumption are projected to increase moderately by 2.12%, 2.15% and 1.91% respectively.

The long-term forecast is for total vehicles, vehicle travel, and fuel consumption to continue to increase but at declining rates. Under the assumption that the Corporate Average Fuel Economy (CAFE) standard for new cars will remain at 27.5 miles per gallon, and the projected increase in the proportion of heavy duty truck travel, the fleet fuel economy will reach a peak value of 18.77 miles per gallon by year 2023.

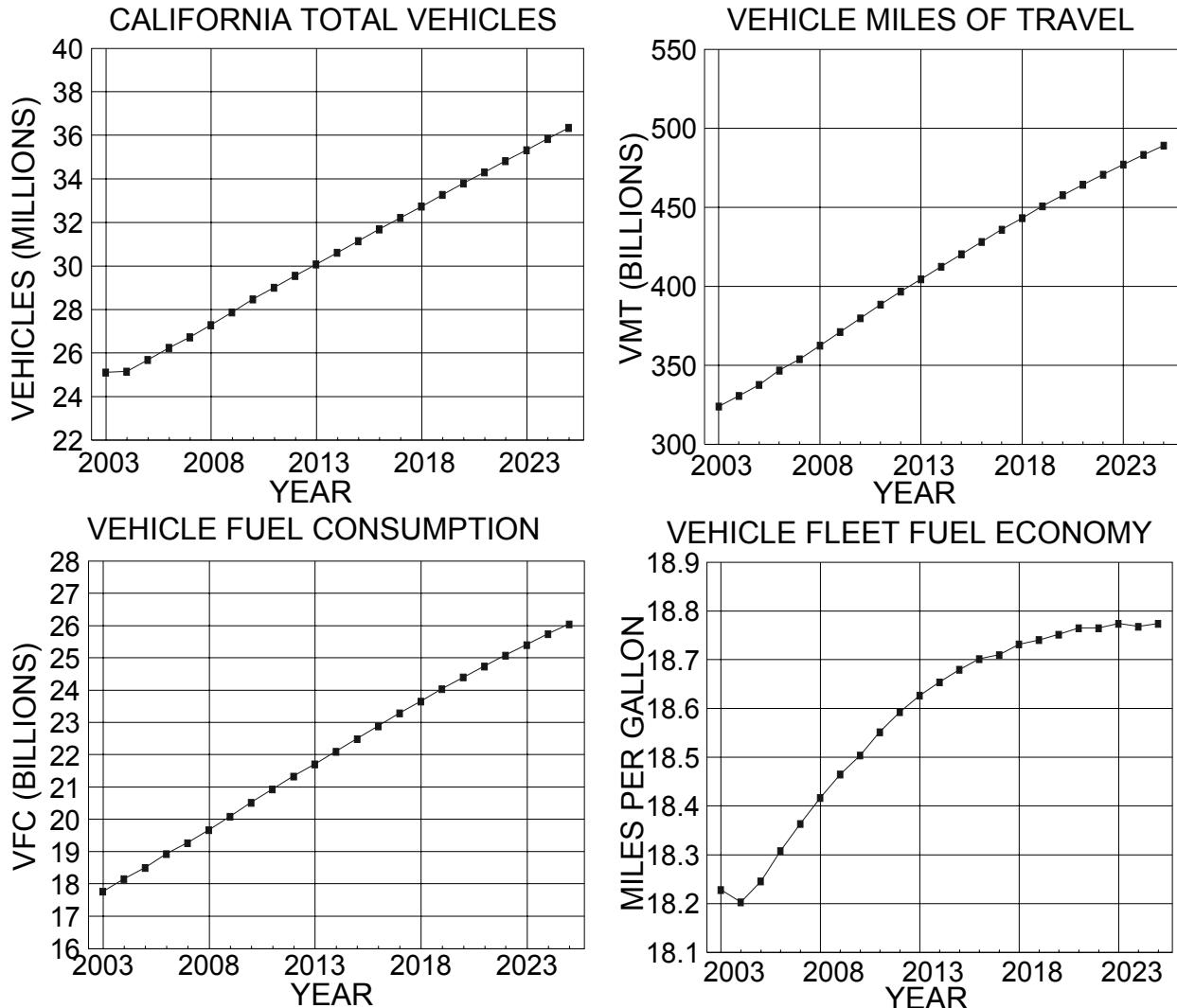
Past and projected growth in California vehicle miles of travel are affected by: population, real total personal income per person (IPP), vehicles per person (VPP), and the fuel cost per mile (FCPM) of travel, all of which are put in a historical perspective in Figure-S2. The figure shows the percent change in the variables, from the beginning of one decade to the next, for the past 50 years and the 20-year forecast period. The following can be noted from the figure:

- The decade of the 1950's experienced a 71% increase in VMT, which was driven primarily by a 49% increase in population and helped along with moderate increases in per capita total personal income and vehicle ownership.
- The 1960's saw a 64% increase in VMT although population grew at about half the rate that it did in the 1950's (26% vs. the previous 49%). The driving force in the 1960's would appear to be the growth in per capita income and vehicle ownership, the highest in the 50-year history.
- The 1970's produced the smallest percentage increase in VMT (38%) in the first 40 years as a result of the lowest percentage increase in population in this 40-year period, a slower growing economy and sharply rising fuel prices (55%) in the last half of the decade.
- In the 1980's, VMT grew by 62%, rivaling its growth in the 1950's and 1960's. At the same time per capita income and vehicle ownership grew by only 12% and 7%, respectively. Most of the growth in VMT in the 1980's can therefore be attributed to strong population gains (26%) and the precipitous drop in the real fuel cost per mile of travel (57%), resulting from a 45% drop in the real price of fuel and a 30% increase in the on-road fleet fuel economy.
- In the 1990's, VMT grew by only 19% as population growth slows down to 15%; personal income shows moderate (9%) growth. Fuel cost per mile increases 12% due to a sharp increase in fuel prices in 1999 and 2000.
- In the 2000's VMT is forecasted to grow 24% as population growth rates increase similar to the 1990's (15%), personal income increase moderately (12%). Fuel cost per mile is expected to increase less than 3% in the 2000's.
- In the 2010's VMT grows moderately (21%) as population growth rate increase slightly under the 1990's (12%) but personal income increase 21% much better than the rate in the 2000's. Fuel cost per mile is forecasted to be very stable, a change of only 2.7% in 10 years.

Estimates of total system and state highway system vehicle miles of travel for the period 1965-2025 are shown in Figure-S3. Estimates of gasoline, diesel and total fuel consumption for the years 1965-2025 are shown in Figure-S4.

Figure-S1

## Motor Vehicle Stock, Travel and Fuel Forecast

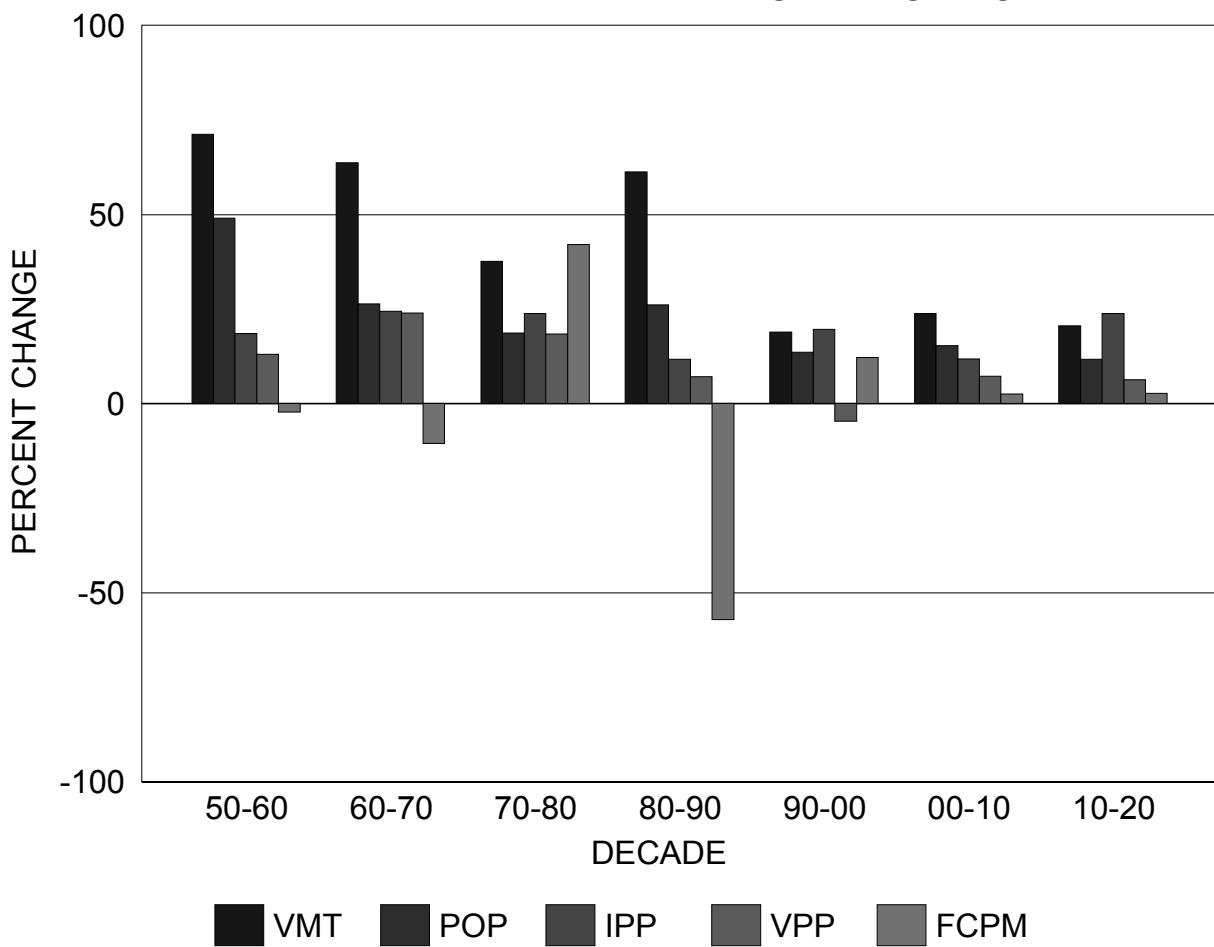


**CALIFORNIA TOTAL VEHICLES, VMT, FUEL AND MPG FORECAST**

YEAR	VEH	VMT	VFC	MPG	YEAR	VEH	VMT	VFC	MPG
2003	25.12	324.1	17.78	18.23	2015	31.16	420.3	22.50	18.68
2004	25.16	330.7	18.17	18.20	2016	31.69	428.2	22.90	18.70
2005	25.70	337.8	18.51	18.25	2017	32.22	435.9	23.30	18.71
2006	26.26	346.8	18.94	18.31	2018	32.74	443.2	23.66	18.73
2007	26.74	354.0	19.28	18.36	2019	33.28	450.7	24.05	18.74
2008	27.29	362.5	19.68	18.42	2020	33.81	457.7	24.41	18.75
2009	27.88	371.2	20.10	18.47	2021	34.31	464.3	24.75	18.77
2010	28.48	379.8	20.53	18.50	2022	34.83	470.8	25.09	18.77
2011	29.01	388.5	20.94	18.55	2023	35.34	477.1	25.41	18.77
2012	29.56	396.8	21.34	18.59	2024	35.85	483.3	25.75	18.77
2013	30.08	404.5	21.72	18.63	2025	36.35	489.2	26.06	18.77
2014	30.62	412.5	22.11	18.65					

Figure-S2

## PERCENT CHANGE BY DECADE IN ANNUAL VMT AND THE MAIN VARIABLES AFFECTING IT



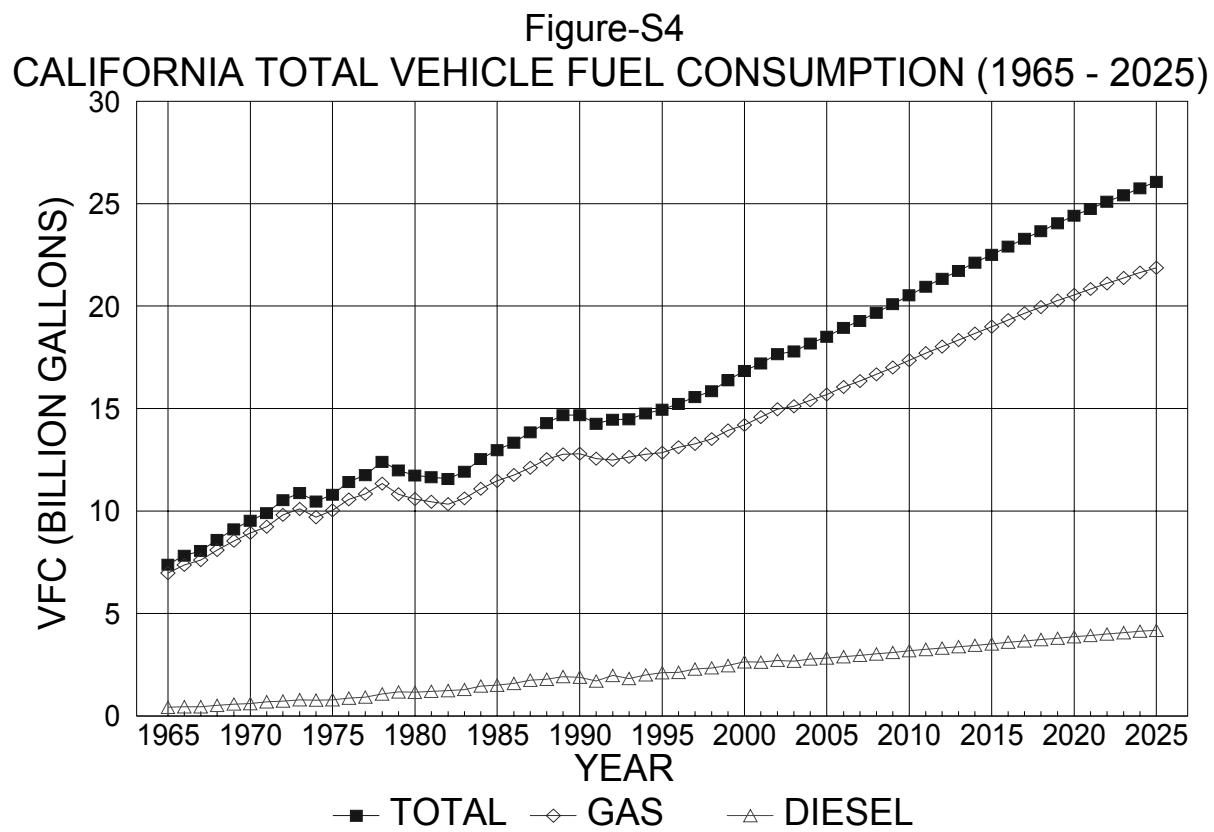
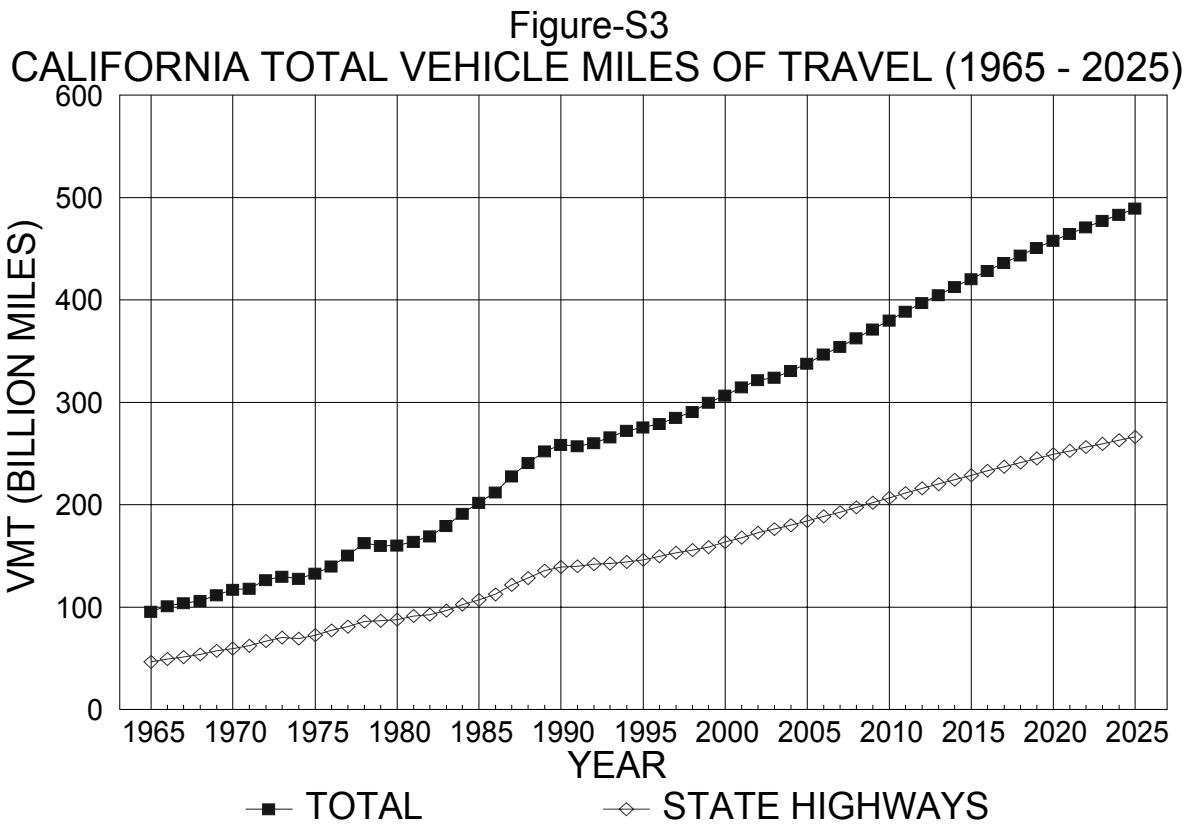
VMT: Vehicle Miles of Travel

POP: Population

IPP: Total Personal Income Per Person (67\$)

VPP: Vehicle Per Person

FCPM: Fuel Cost Per Miles (67\$)



## II. INTRODUCTION

The California Department of Transportation utilizes estimates and forecasts of statewide vehicle miles of travel (VMT) and vehicle fuel consumption (VFC) for a number of planning and reporting purposes. For example, estimates of VMT are needed annually for the FHWA-mandated Highway Performance Monitoring System (HPMS) program, and as input to the California Highway Patrol annual reporting system. Intermediate and long-term forecasts of VMT and VFC are used for system planning, projections of revenues from excise taxes on fuels, and air quality and energy conservation programs. To ensure that the forecasts are produced with appropriate, consistent and state-of-the-art methodologies, the Division of Transportation System Information has developed the California Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) process which it updates on a continuous basis. The results of applying the process are reported in the MVSTAFF Report, which has been published annually since 1984, except for 1990.

The forecasts are based on socioeconomic data developed by the Office of Travel Forecasting and Analysis of the Division of Transportation System Information using the latest California Department of Finance population projections (Ref. 3 & 4) and economic projections from the UCLA Anderson Forecast (Ref.1). These forecasts are primarily intended for use at the statewide level. However, the statewide total VMT forecasts have been allocated down to the county level in response to numerous requests for data at a substate level for transportation and air quality modeling and analysis.

The remaining sections of the report follow the outline listed below:

- An overview of the MVSTAFF process.
- A brief description of the socioeconomic projections, which drive the forecasting process.
- A brief description of the forecast results.
- An appendix gives the county VMT (Appendix B), VFC (Appendix C), and TMT (Appendix D) distribution based on statewide forecasts. The statewide total VMTs and truck VMTs are distributed to the 58 counties by State Highways and all "Other" public roads and the statewide VFCs are distributed to the 58 counties by gasoline fuel and diesel fuel.

### III. MVSTAFF PROCESS OVERVIEW

The MVSTAFF process is a recursive procedure, which estimates, for each year of the forecast period, the following:

- The motor vehicle stock (average number of currently registered vehicles) by six body types, two fuel types, and 25 model years or age groups.
- The fuel economy of the total fleet and each model year fleet.
- The vehicle travel and fuel consumption for the total fleet and each model year fleet.

The process consists of four major parts, which are outlined in Figure-1 and briefly described below.

#### 1. Inventories

- Base year estimates and future year projections of the socioeconomic variables which are assumed to be the causative factors for acquiring vehicles and generating travel; base year fuel consumption; and explicit assumptions about new vehicle fuel economy.
- The base year vehicle stock stratified by vehicle type and model year, and derived estimates of the on-road fuel economy of each stratum of vehicles in the base year fleet.

#### 2. The Stratified Rate Model

- When applied to the base year inventory, this model estimates base year vehicle travel, fuel consumption and fuel economy for each vehicle type and the total fleet.
- When applied in the forecasting mode, the Stratified Rate Model first updates the composition and fuel economy of the fleet by one year and then estimates the next year's stratified fleet, vehicle travel, fuel consumption and fuel economy.
- Imbedded in the Stratified Rate Model are submodels which forecast the total number of vehicles by vehicle type, new vehicles, in-migration vehicles, and scrappage of old vehicles and the fuel economy of new vehicles under explicit socioeconomic assumptions.

#### 3. The Statewide Aggregate VMT and VFC Model

- This model accepts the vehicle fleet fuel economy from the Stratified Rate Model and socioeconomic data from the inventory. It estimates next year's statewide total VMT and VFC without regard to vehicle body type. Because the Aggregate Model is more directly linked to socioeconomic variables, the VMT forecasts from the model are used as control totals for the forecast years.

#### 4. A Comparison/Adjustment Model

- This model compares and adjusts the total VMT and VFC from the Stratified Rate Model to match that from the Aggregate Model. As part of the comparison/adjustment process, statewide total diesel fuel is forecasted with a Diesel Fuel Consumption Model, and gasoline fuel is computed as the difference between total fuel and diesel fuel. Following the comparison/adjustment step, future year VMT, VFC, and vehicle fuel economy (VFE) for each vehicle type are then calculated.

The above sequence produces the "next year" forecast. The process is then recursively applied to produce forecasts for each succeeding year in the forecast period.

Statewide VMT from the above process is distributed to the 58 counties and two major road systems (State Highways and all "Other" public roads) as follows:

For the base year, county VMT on state highways is obtained directly from the Traffic Operations Program's annual Traffic Accident Surveillance and Analysis System (TASAS) file. County VMT on all other public roads, except that on the local road functional class, is estimated from the annual Highway Performance Monitoring System (HPMS) file. Local road VMT cannot be obtained from either TASAS or HPMS. Therefore, statewide local road VMT is calculated as the difference: statewide total VMT (MVSTAFF) minus state highway VMT (TASAS) and other road VMT (HPMS). Statewide local road VMT is then allocated to each county on the basis of the relative distribution of the quantity, "county automobile registrations times the proportion of local road mileage to the total system mileage".

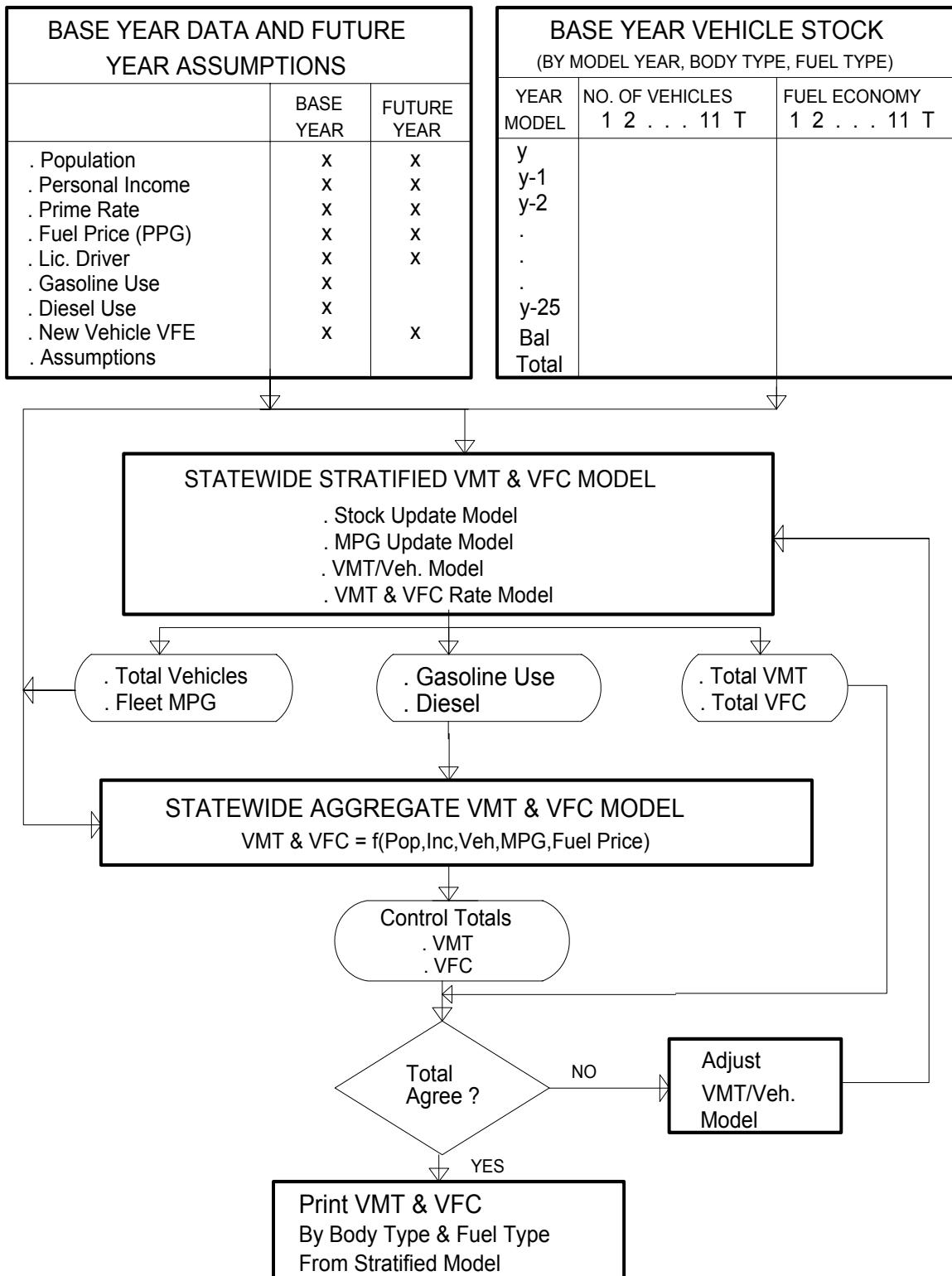
For future years, the statewide VMT from MVSTAFF is distributed by applying county-specific, annualized growth rates to the base year county estimates described above. The county-specific growth rates are calculated from county population estimates recently published by the Department of Finance. The annualized rates are normalized so that the sum of counties' VMT equals the MVSTAFF statewide VMT.

Statewide VFC is distributed to the 58 counties and the two fuel types, gasoline and diesel, using estimates of county VMT, truck VMT and statewide estimates of vehicle fuel economy.

Statewide county truck VMT or TMT distributions include all truck VMT except light-duty trucks. Physically these trucks are defined as vehicles having at least two axles and six tires. The county TMT distributions are based on the latest available county TMT distribution and the distributions of base year and forecast year county VMT estimates.

Figure-1

## MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECASTING PROCESS



#### **IV. FORECAST ASSUMPTIONS**

As discussed in the previous section and shown in Figure-1, the MVSTAFF process requires base year estimates and future year projections of a number of socioeconomic variables; and explicit assumptions regarding the fuel economy of the vehicle fleet, by vehicle type. The assumptions made regarding the key variables, that drive the forecasting process, are briefly described below.

##### **A. SOCIOECONOMIC ASSUMPTIONS**

Base year (2003) estimates of population and the economic variables were obtained from the California Department of Finance (DOF), the state's official source of such information. Future year population was also obtained from DOF. Caltrans Division of Transportation System Information developed projections of the economic variables based on the information in the "UCLA Anderson Forecast for the Nation and California, September 2004" (Ref. 1). The MVSTAFF forecasts, therefore, reflect the same scenario imposed on the DOF population projections and the existing legislation regarding current and future taxes on fuel.

The resulting projections, which were used in the forecast, are shown graphically and in tabular form in Figures 2 to 7. A brief discussion of each variable is given below.

###### **1. Population**

Population projections used for the years 2003-2025 were the latest data available from DOF (Ref. 3 & 4). These projections are shown in Figure-2. As can be seen, the state's population is projected to continue to increase. The rate of increase is 1.23 percent in 2004 and 1.31 in 2005 and then continues to fall to a low of 0.94 percent in 2025. The annual average rate of increase is about 1.13 percent.

###### **2. Inflation Assumptions: The U.S. Consumer Price Index**

Projections of total personal income and motor vehicle fuel prices are normally made on a current dollar basis. Because the MVSTAFF process operates on a constant dollar basis, these need to be adjusted for inflation by dividing them by projections of the U.S. Consumer Price Index (U.S. CPI). The projections of the U.S. CPI to 2025 are shown in Figure-3.

It can be seen from Figure-3 that the CPI is projected to increase at an average rate of 2.95 percent per year throughout the forecast period.

###### **3. Total Personal Income Per Person**

Statewide total personal income per person (IPP) is an important variable in a number of forecasting models used in the MVSTAFF process. For example, it is a major determinant of new car sales, vehicle ownership and annual miles of travel per person.

The 2003 base year income per person was from the California Department of Finance, and the annual percentage growth rates for the future years were derived from the UCLA Anderson Forecast for the Nation and California, September 2004 (Ref. 1).

The forecast of statewide total personal income (TPI), in 1967 dollars, is shown in Figure-4, and the forecast of total personal income per person in Figure-5. As can be seen, total personal income is expected to increase 3.39 percent and total personal income per person is expected to increase 2.14 percent respectively in 2004. Total personal income is projected to increase at an annual average rate of 3.33 percent for the forecast period. The income per person growth rates follow a similar pattern but at a lower rate which average to an annual rate of about 2.18 percent.

#### 4. Fuel Price

Fuel price is one of the most important variables in projecting future vehicle miles of travel and fuel consumption. This is because: (a) it directly and significantly determines the amount of vehicular travel, as shown in the development of the Statewide Aggregate VMT and VFC Model (Ref. 1); (b) over the past twenty years it has had the greatest variability of any of the socioeconomic variables used to forecast VMT and VFC; and (c) it influences the fuel economy of the new vehicle fleet which directly impacts fuel consumption.

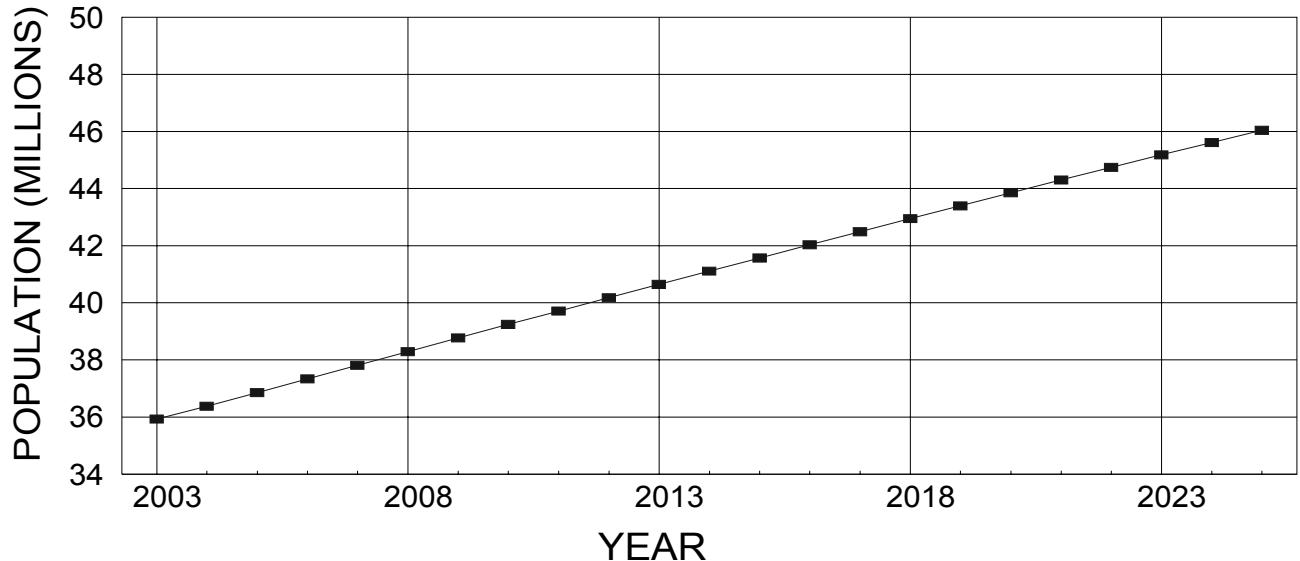
The fuel price variable used in the forecasting process is the price of gasoline, averaged over all grades, and full service and self service sales. The price includes all excise taxes but not sales taxes. Projected gasoline prices in constant 1967 dollars are given in Figure-6. They were estimated using the UCLA Anderson Forecast gasoline price forecast.

Figure-6 shows the projected fuel prices in constant (1967) dollars. Fuel price is expected to continue to increase after 2004. The average annual rate of increase for the forecast period is 0.62 percent.

#### 5. Prime Lending Rate

The prime lending rate is one of the variables used to estimate new vehicle sales, which is needed to annually update the vehicle fleet. The prime commercial bank rates for this year's forecast are given in Figure-7. The rate drops in 2004 to a low of 4.8 percent. It then increases for the forecast period. The rates are very stable and generally are between 6 and 7 percent.

**Figure-2**  
**CALIFORNIA TOTAL POPULATION 2003 - 2025**

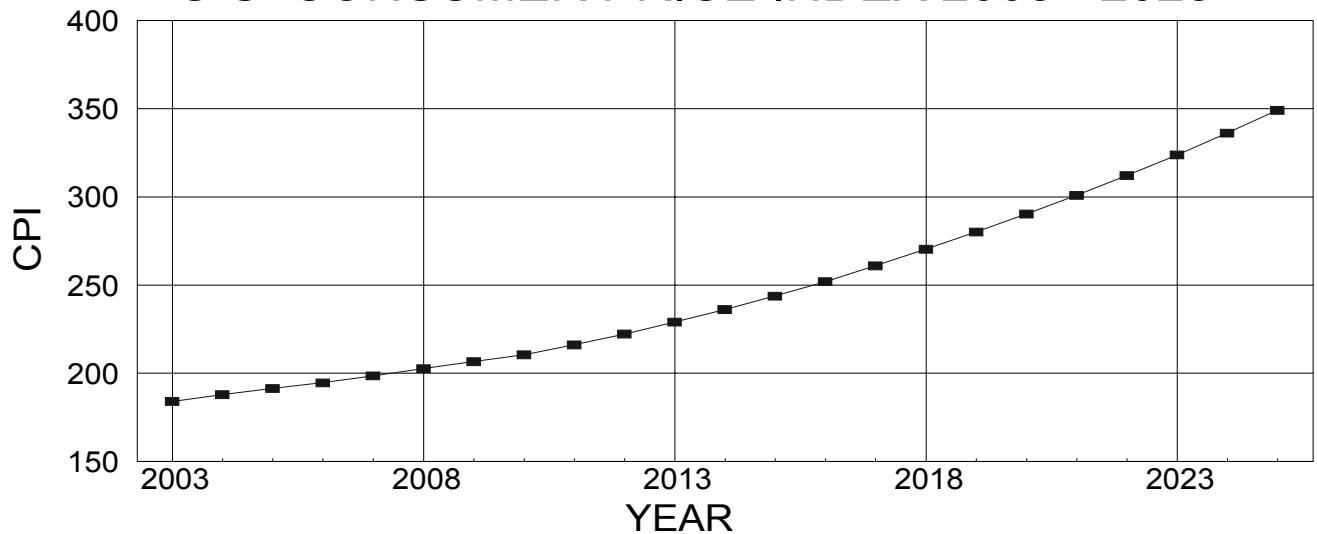


**CALIFORNIA TOTAL POPULATION 2003-2025**

Year	Population	%-CH
2003	35.935	
2004	36.376	1.228
2005	36.854	1.314
2006	37.335	1.304
2007	37.810	1.273
2008	38.289	1.266
2009	38.768	1.251
2010	39.247	1.236
2011	39.714	1.190
2012	40.179	1.172
2013	40.645	1.158
2014	41.109	1.142
2015	41.571	1.124
2016	42.032	1.108
2017	42.490	1.091
2018	42.947	1.075
2019	43.401	1.058
2020	43.852	1.038
2021	44.299	1.019
2022	44.741	0.998
2023	45.179	0.979
2024	45.612	0.959
2025	46.041	0.940

Population in Millions

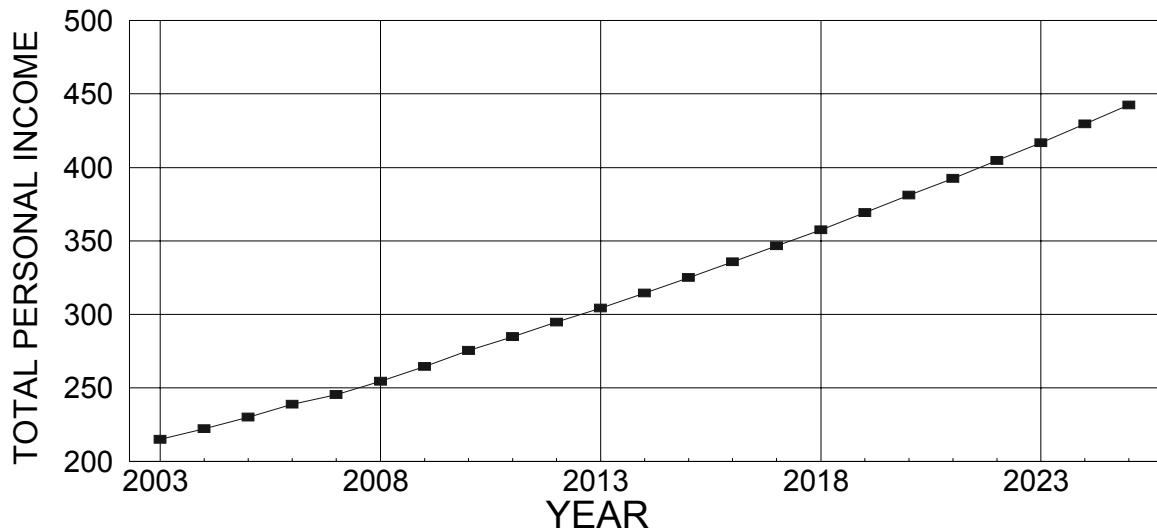
**Figure-3**  
**U.S. CONSUMER PRICE INDEX 2003 - 2025**



### U.S. CONSUMER PRICE INDEX, 1982-1984=100

Year	CPI	%-CH
2003	184.170	
2004	188.000	2.080
2005	191.400	1.809
2006	194.600	1.672
2007	198.587	2.049
2008	202.658	2.050
2009	206.686	1.988
2010	210.538	1.864
2011	216.179	2.679
2012	222.394	2.875
2013	229.086	3.009
2014	236.257	3.130
2015	243.811	3.197
2016	252.033	3.373
2017	260.925	3.528
2018	270.391	3.628
2019	280.143	3.607
2020	290.374	3.652
2021	300.987	3.655
2022	312.269	3.748
2023	323.934	3.735
2024	336.268	3.808
2025	349.175	3.839

Figure-4  
CALIFORNIA TOTAL PERSONAL INCOME IN 1967 DOLLARS

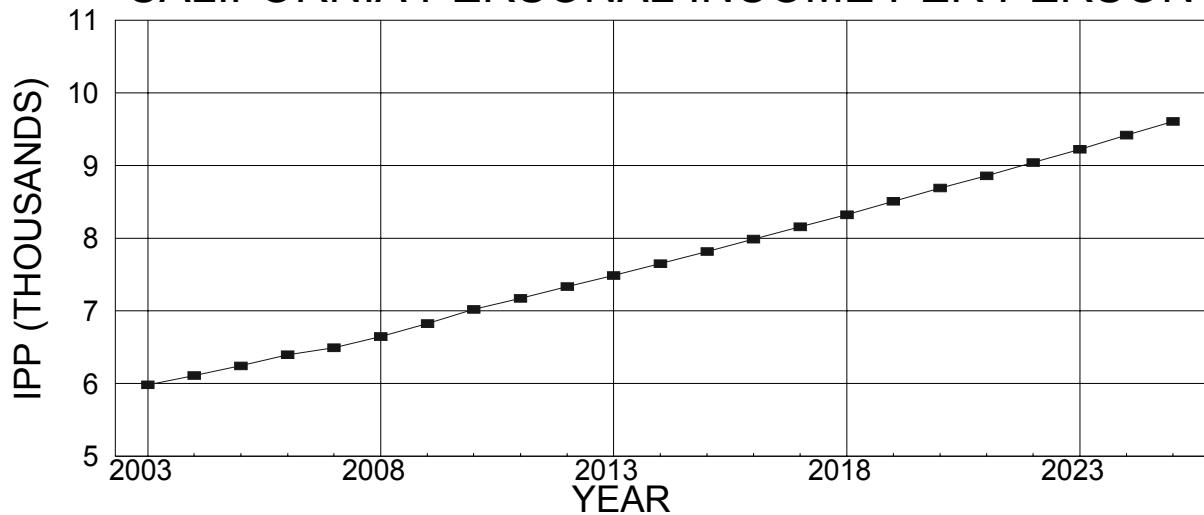


### CALIFORNIA TOTAL PERSONAL INCOME

Year	TPI	%-CH
2003	214.981	□
2004	222.274	3.392
2005	230.062	3.504
2006	238.807	3.801
2007	245.481	2.795
2008	254.494	3.672
2009	264.615	3.977
2010	275.534	4.127
2011	284.859	3.384
2012	294.801	3.490
2013	304.383	3.250
2014	314.596	3.355
2015	325.012	3.311
2016	335.762	3.308
2017	346.628	3.236
2018	357.508	3.139
2019	369.304	3.300
2020	381.200	3.221
2021	392.500	2.964
2022	404.635	3.092
2023	416.685	2.978
2024	429.614	3.103
2025	442.423	2.982

TPI in Billions (67\$)

**Figure-5**  
**CALIFORNIA PERSONAL INCOME PER PERSON**

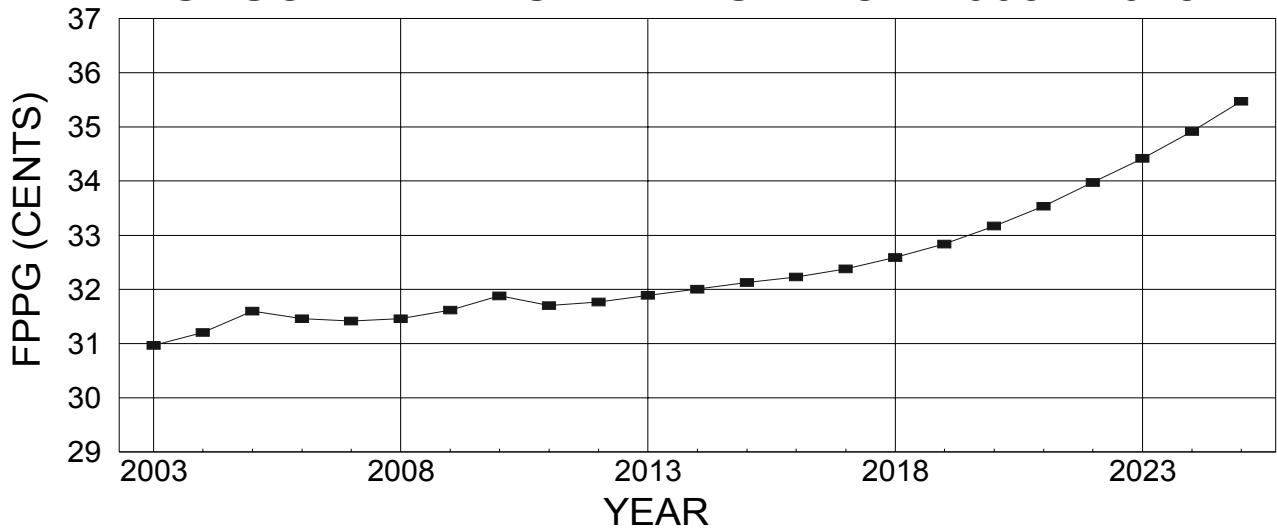


### CALIFORNIA PERSONAL INCOME PER PERSON

Year	IPP	%-CH
2003	5.983	□
2004	6.110	2.138
2005	6.242	2.162
2006	6.396	2.464
2007	6.492	1.503
2008	6.647	2.376
2009	6.826	2.692
2010	7.021	2.856
2011	7.173	2.168
2012	7.337	2.291
2013	7.489	2.069
2014	7.653	2.188
2015	7.818	2.162
2016	7.988	2.175
2017	8.158	2.122
2018	8.324	2.042
2019	8.509	2.219
2020	8.693	2.160
2021	8.860	1.926
2022	9.044	2.073
2023	9.223	1.980
2024	9.419	2.123
2025	9.609	2.023

IPP in Thousands (67\$)

Figure-6  
GASOLINE PRICE PER GALLON 2003 - 2025

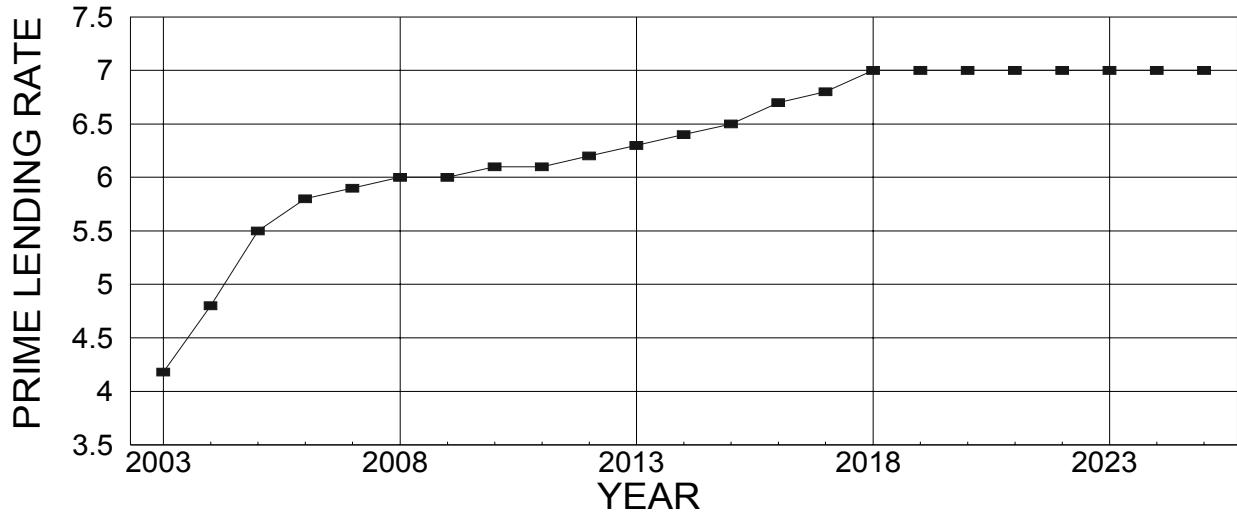


### GASOLINE PRICE PER GALLON IN 1967 DOLLARS

Year	Price	%-CH
2003	30.968	□
2004	31.206	0.767
2005	31.602	1.271
2006	31.463	-0.441
2007	31.417	-0.147
2008	31.463	0.147
2009	31.621	0.502
2010	31.880	0.821
2011	31.701	-0.564
2012	31.770	0.219
2013	31.890	0.379
2014	32.005	0.359
2015	32.130	0.390
2016	32.231	0.317
2017	32.378	0.456
2018	32.588	0.649
2019	32.838	0.766
2020	33.170	1.011
2021	33.536	1.105
2022	33.973	1.303
2023	34.420	1.315
2024	34.915	1.438
2025	35.474	1.600

Price in Cents (67\$)

Figure-7  
PRIME LENDING RATE 2003 - 2025



### PRIME LENDING RATE 2003-2025

Year	Prime	%-CH
2003	4.180	□
2004	4.800	14.833
2005	5.500	14.583
2006	5.800	5.455
2007	5.900	1.724
2008	6.000	1.695
2009	6.000	0.000
2010	6.100	1.667
2011	6.100	0.000
2012	6.200	1.639
2013	6.300	1.613
2014	6.400	1.587
2015	6.500	1.563
2016	6.700	3.077
2017	6.800	1.493
2018	7.000	2.941
2019	7.000	0.000
2020	7.000	0.000
2021	7.000	0.000
2022	7.000	0.000
2023	7.000	0.000
2024	7.000	0.000
2025	7.000	0.000

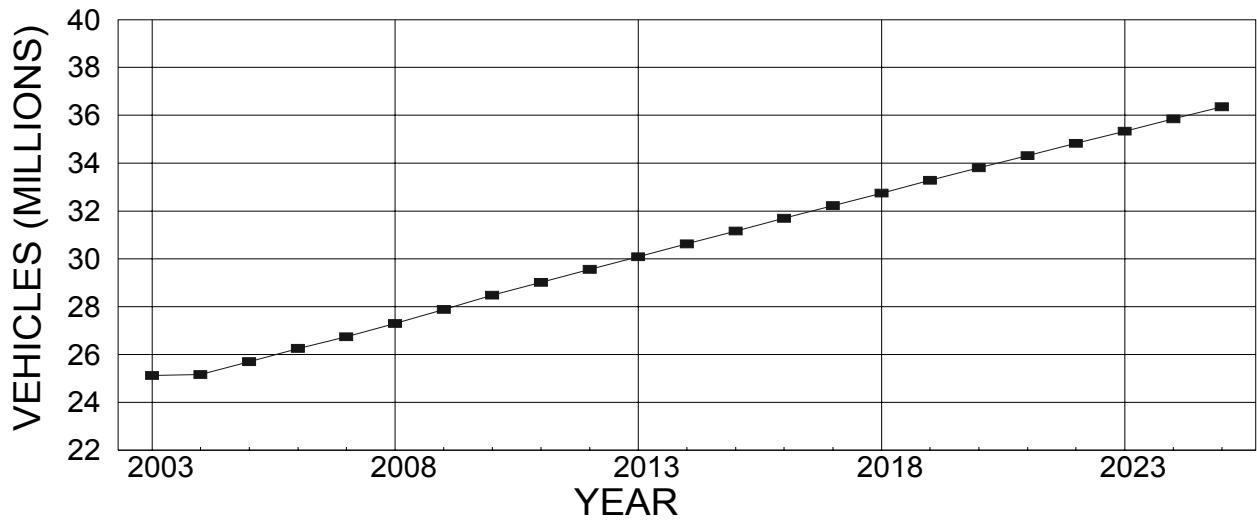
## B. NEW VEHICLE FUEL ECONOMY

The MVSTAFF process requires explicit assumptions of the fuel economy of new vehicles entering the fleet each year. The recent update of the MPG model using the 1994 to 2003 Department of Motor Vehicles' vehicle population profile for California, and the EPA Gas Mileage Guides showed that the light duty vehicle fleets (autos and trucks of gross vehicle weight less than 10,000 pounds) meet the national Corporate Average Fuel Economy (CAFE) standards. Because of the fact that the CAFE standard has not been changed, it was assumed the new light duty fleets would continue to have the same fuel economy into the future.

For the medium truck fleets (gross vehicle weight from 10,001 to 33,000 lbs.) and heavy-duty truck fleets (gross vehicle weight greater than 33,000 lbs.), it was reasoned that the manufacturers and buyers are aware of the significance of the fuel operating cost to the trucking industry and that the long-term outlook is for higher fuel prices. Hence, there will be a continuous need and effort to improve truck fuel economy so that in the long run, fuel-operating costs will not increase beyond current levels. Using the vehicle fuel economy values from the 1977, 1982, 1987, 1992 Truck Inventory and Use Survey (TIUS) Reports (Ref. 6) and the 1997 Vehicle Inventory and Use Survey (VIUS) Report (Ref. 7) an average annual fleet MPG improvement was calculated for each vehicle and fuel type. These rates of improvement were assumed to continue in the future.

Fuel economy of motorcycles was assumed to be a constant on-road value of 50.0 miles per gallon.

Figure-8  
CALIFORNIA TOTAL VEHICLES 2003 - 2025



CALIFORNIA TOTAL VEHICLES 2003-2025

Year	Vehicles	%-CH
2003	25.121	
2004	25.161	0.159
2005	25.695	2.122
2006	26.258	2.191
2007	26.738	1.828
2008	27.294	2.079
2009	27.879	2.143
2010	28.478	2.149
2011	29.013	1.879
2012	29.557	1.875
2013	30.084	1.783
2014	30.622	1.788
2015	31.156	1.744
2016	31.691	1.717
2017	32.221	1.672
2018	32.743	1.620
2019	33.279	1.637
2020	33.807	1.587
2021	34.314	1.500
2022	34.830	1.504
2023	35.336	1.453
2024	35.850	1.455
2025	36.352	1.400

Vehicles in Millions

## V. FORECAST RESULTS

### A. Motor Vehicle Stock

The total vehicle figures used in this report are the average number of currently registered motor vehicles in operation in each calendar year. The estimates of the base year and the forecast years are provided in Figure-8. Values in the figure represent all vehicle body types (autos, trucks and motorcycles) and fuel types (gasoline and diesel).

Total vehicles are expected to increase by 0.16% in 2004. However, the long-term forecast is for vehicles to continue to increase at an annual average rate of 1.69 percent for the forecast period.

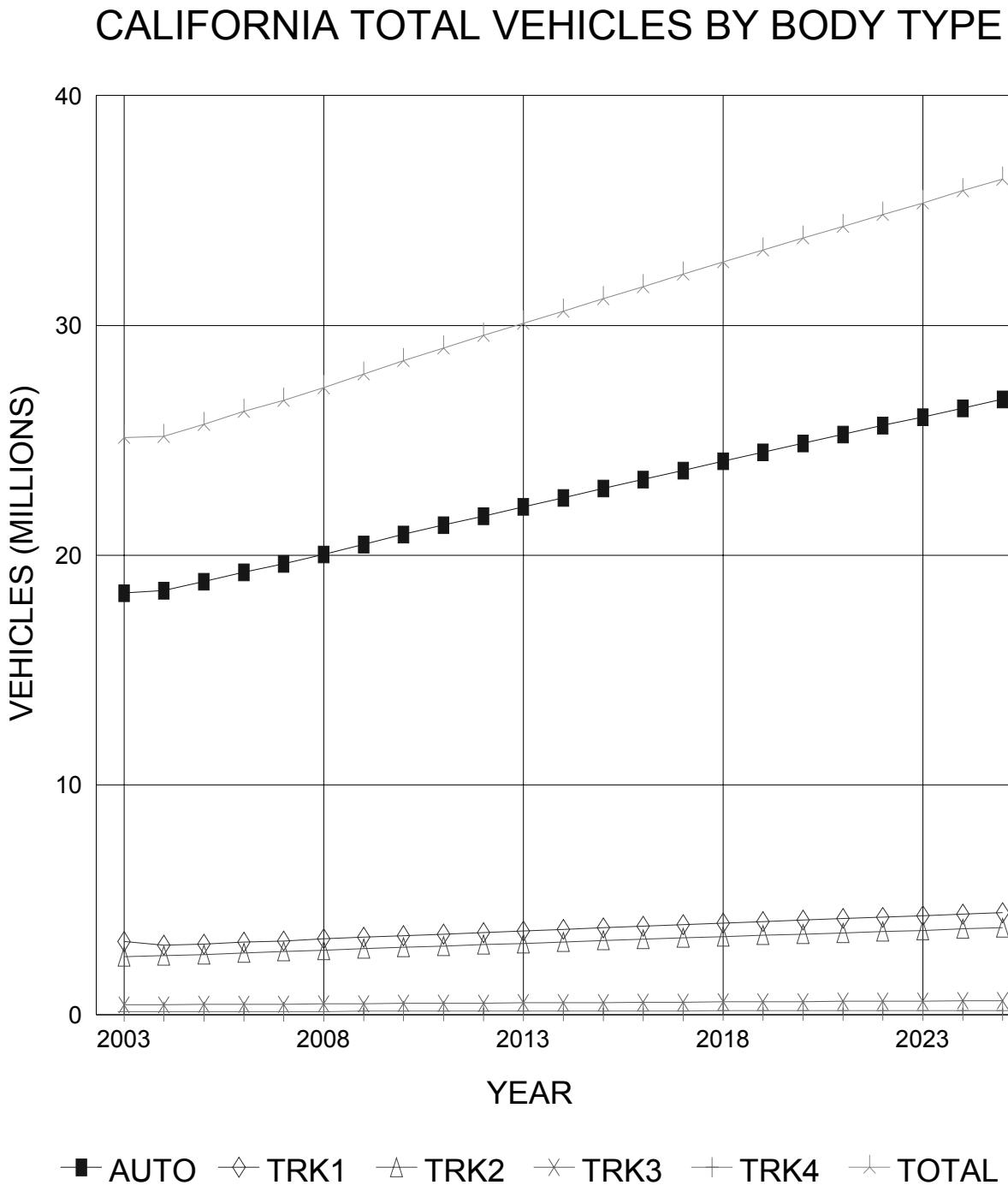
Total vehicles were stratified into body type, fuel type, and model year categories with the vehicle stock update model. Table-1 gives the forecasted number of vehicles in each body type and fuel type category for the years 2003 to 2017, 2020 and 2025.

Figure-9 graphically shows the estimates of total gasoline plus diesel vehicles, by body type, for the years 2003 to 2025. The plots correspond to the data given in the upper part of Table-1. Although motorcycles are not shown as a separate entry in the figure, they are included in the "Total" graph.

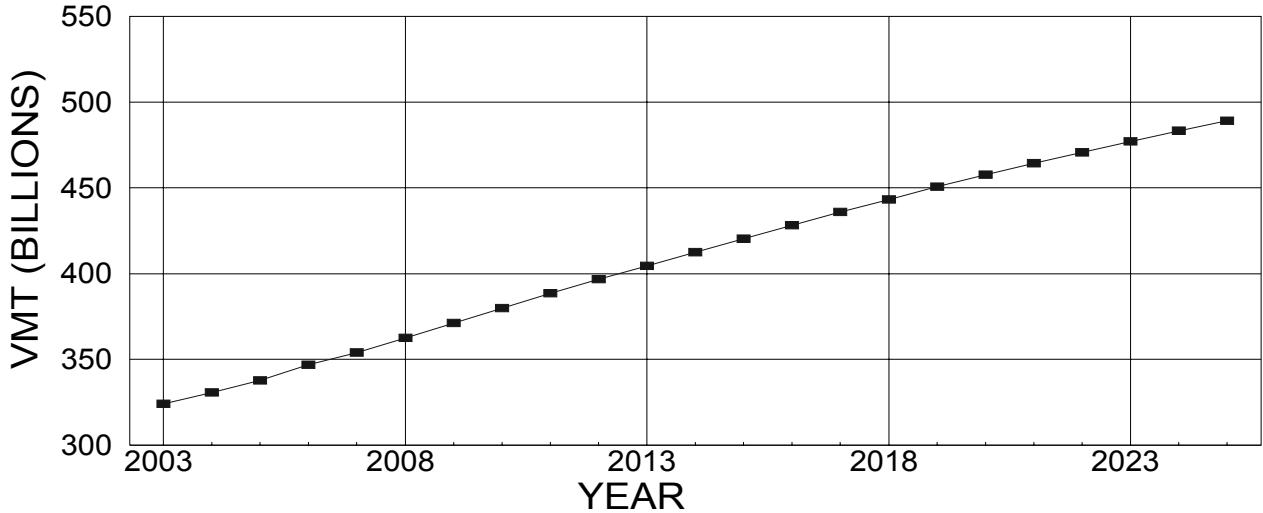
TABLE-1: CALIFORNIA TOTAL VEHICLES (MILLIONS)

VEH. TYPE	CAL. YEAR	BODY TYPE						TOTAL
		AUTOS	TRK1	TRK2	TRK3	TRK4	M.C.	
T O T A L	2003	18.338	3.188	2.517	0.424	0.133	0.522	25.121
	2004	18.471	3.019	2.572	0.441	0.135	0.522	25.161
	2005	18.843	3.085	2.629	0.448	0.137	0.553	25.695
	2006	19.259	3.158	2.691	0.457	0.140	0.553	26.258
	2007	19.614	3.221	2.745	0.464	0.142	0.552	26.738
	2008	20.027	3.293	2.806	0.472	0.144	0.553	27.294
	2009	20.461	3.368	2.870	0.481	0.147	0.553	27.879
	2010	20.906	3.444	2.935	0.490	0.150	0.554	28.478
	2011	21.304	3.512	2.993	0.499	0.152	0.553	29.013
	2012	21.709	3.582	3.052	0.507	0.154	0.553	29.557
	2013	22.101	3.649	3.109	0.515	0.157	0.554	30.084
	2014	22.501	3.717	3.167	0.524	0.159	0.554	30.622
	2015	22.899	3.784	3.225	0.532	0.162	0.554	31.156
G A S O L I N E	2016	23.297	3.852	3.282	0.540	0.164	0.555	31.691
	2017	23.692	3.919	3.339	0.549	0.167	0.555	32.221
	2020	24.875	4.118	3.509	0.574	0.174	0.557	33.807
	2025	26.771	4.436	3.780	0.616	0.186	0.562	36.352
	2003	18.191	3.176	2.279	0.151	0.001	0.522	24.320
	2004	18.309	3.007	2.301	0.146	0.001	0.522	24.286
	2005	18.693	3.074	2.356	0.147	0.001	0.553	24.825
	2006	19.121	3.148	2.417	0.148	0.001	0.553	25.388
	2007	19.485	3.212	2.469	0.150	0.001	0.552	25.869
	2008	19.906	3.284	2.528	0.152	0.001	0.553	26.424
	2009	20.347	3.360	2.591	0.155	0.001	0.553	27.007
	2010	20.799	3.437	2.654	0.158	0.001	0.554	27.602
	2011	21.203	3.506	2.712	0.161	0.001	0.553	28.136
	2012	21.614	3.576	2.770	0.164	0.001	0.553	28.678
	2013	22.011	3.643	2.826	0.167	0.001	0.554	29.202
	2014	22.416	3.712	2.882	0.170	0.001	0.554	29.735
D I E S E L	2015	22.818	3.780	2.939	0.173	0.001	0.554	30.265
	2016	23.220	3.848	2.995	0.176	0.001	0.555	30.794
	2017	23.618	3.915	3.050	0.179	0.001	0.555	31.318
	2020	24.807	4.115	3.213	0.189	0.001	0.557	32.882
	2025	26.709	4.434	3.470	0.205	0.002	0.562	35.382
	2003	0.146	0.012	0.238	0.273	0.131	0.000	0.801
	2004	0.163	0.012	0.271	0.296	0.134	0.000	0.875
	2005	0.149	0.011	0.273	0.302	0.136	0.000	0.871
	2006	0.139	0.010	0.275	0.308	0.139	0.000	0.870
	2007	0.129	0.009	0.276	0.314	0.141	0.000	0.869
	2008	0.121	0.008	0.277	0.320	0.143	0.000	0.870
	2009	0.114	0.008	0.279	0.326	0.146	0.000	0.872
	2010	0.107	0.007	0.281	0.332	0.148	0.000	0.876
	2011	0.101	0.007	0.282	0.338	0.151	0.000	0.877
	2012	0.095	0.006	0.283	0.343	0.153	0.000	0.880
	2013	0.089	0.006	0.284	0.349	0.156	0.000	0.883
	2014	0.085	0.005	0.285	0.354	0.158	0.000	0.886
	2015	0.081	0.005	0.286	0.359	0.160	0.000	0.891
	2016	0.077	0.004	0.288	0.364	0.163	0.000	0.897
	2017	0.074	0.004	0.290	0.370	0.165	0.000	0.903
	2020	0.068	0.003	0.296	0.385	0.172	0.000	0.925
	2025	0.062	0.002	0.310	0.411	0.184	0.000	0.970

Figure-9



**Figure-10**  
**CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL**



### CALIFORNIA TOTAL VEHCILE MILES OF TRAVEL

Year	VMT	%-CH
2003	324.087	□
2004	330.667	2.030
2005	337.765	2.147
2006	346.754	2.661
2007	354.036	2.100
2008	362.491	2.388
2009	371.160	2.392
2010	379.812	2.331
2011	388.541	2.298
2012	396.776	2.119
2013	404.538	1.956
2014	412.465	1.960
2015	420.308	1.901
2016	428.229	1.885
2017	435.866	1.783
2018	443.246	1.693
2019	450.688	1.679
2020	457.749	1.567
2021	464.343	1.441
2022	470.799	1.390
2023	477.100	1.338
2024	483.291	1.298
2025	489.194	1.221

VMT in Billion Miles

## B. Vehicle Miles of Travel

Statewide total vehicle miles of travel projected by the forecast are given in Figure-10. The values in the figure represent travel by all vehicle body types and fuel types on all public roads.

The 2003 vehicle miles of travel (VMT) estimate of 324.087 is based on the 2003 on-road fuel consumption estimate from the Board of Equalization's sales data, and the 2003 on-road vehicle fleet fuel economy from the MVSTAFF Stratified Rate Model. Annual statewide VMT is expected to increase 2.03 percent in 2004. The long-term forecast is for VMT to continue to grow, but at significantly lower rates than it has in the past. The slow down is predicated on lower statewide population and economic growth. For air quality conformity analysis purposes the annual VMT in 5-year increments from 1990 are listed in Table-1.1.

Forecasts of statewide total VMT stratified by six body types and two fuel types are given in Table-2. Graphs of VMT by body type are given in Figure-11. The graphs correspond to the data in the upper part of Table-2. Although VMT by motorcycles is not shown as a separate entry in the figure, it is included in the "Total VMT" graph.

Table-1.1

Total Statewide VMT and Five-year Percent Change

YEAR	VMT	%-CH
1990	259.003	
1995	276.968	6.936
2000	306.371	10.616
2005	337.765	10.247
2010	379.812	12.448
2015	420.308	10.662
2020	457.749	8.908
2025	489.194	6.867

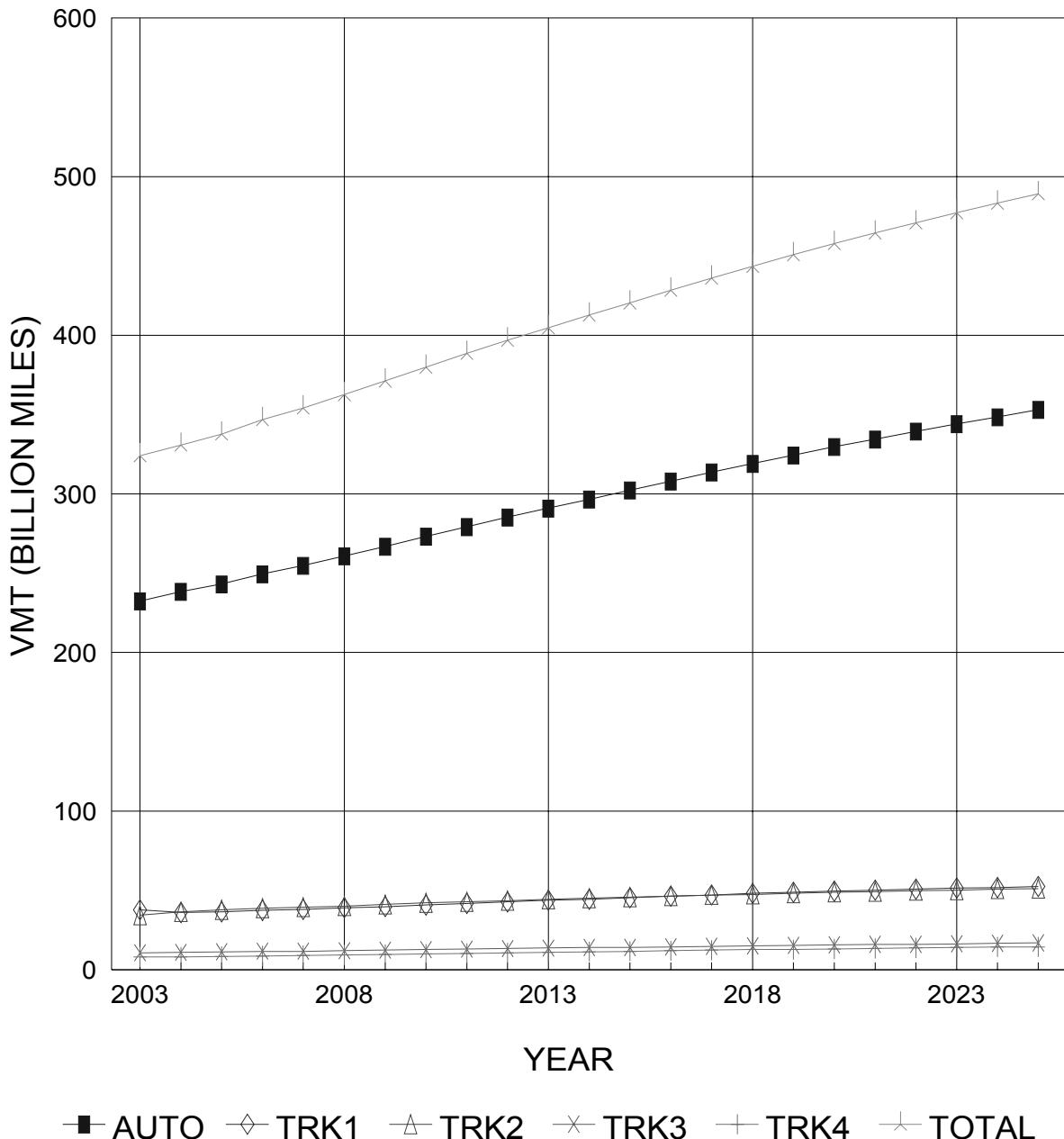
VMT in Billion Miles

Table-2 CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL (BILLIONS)

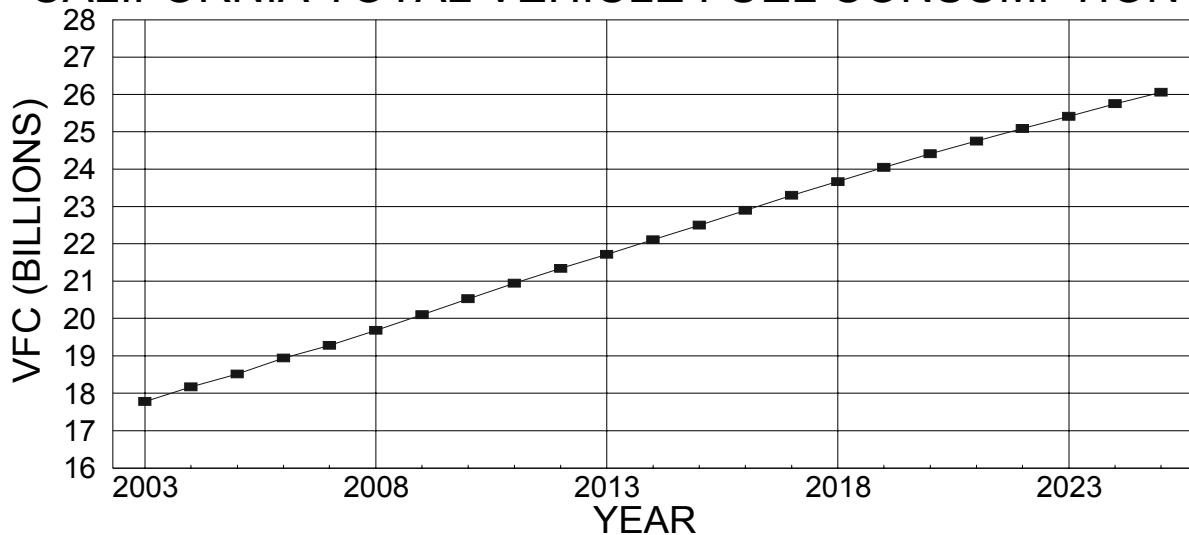
VEH. TYPE	CAL. YEAR	BODY TYPE						TOTAL
		AUTOS	TRK1	TRK2	TRK3	TRK4	M.C.	
T O T A L	2003	232.457	37.692	34.367	10.560	7.862	1.149	324.087
	2004	238.305	35.953	36.358	11.017	7.885	1.149	330.667
	2005	243.049	36.396	37.615	11.262	8.227	1.216	337.765
	2006	249.400	37.371	38.616	11.575	8.577	1.216	346.754
	2007	254.628	38.146	39.372	11.818	8.856	1.215	354.036
	2008	260.724	38.996	40.241	12.125	9.190	1.216	362.491
	2009	266.914	39.898	41.125	12.456	9.550	1.217	371.160
	2010	273.116	40.798	41.959	12.795	9.925	1.218	379.812
	2011	279.328	41.840	42.839	13.061	10.255	1.217	388.541
	2012	285.222	42.787	43.610	13.338	10.601	1.217	396.776
	2013	290.791	43.682	44.305	13.604	10.939	1.218	404.538
	2014	296.496	44.599	45.001	13.877	11.273	1.219	412.465
	2015	302.171	45.494	45.675	14.149	11.600	1.219	420.308
G A S O L I N E	2016	307.910	46.392	46.359	14.425	11.923	1.220	428.229
	2017	313.472	47.234	47.002	14.701	12.237	1.221	435.866
	2020	329.581	49.499	48.749	15.577	13.118	1.225	457.749
	2025	352.985	52.343	51.139	17.049	14.441	1.237	489.194
	2003	231.085	37.648	30.976	1.831	0.012	1.149	302.701
	2004	236.791	35.916	32.392	1.750	0.011	1.149	308.008
	2005	241.677	36.369	33.638	1.844	0.013	1.216	314.757
	2006	248.137	37.349	34.675	1.946	0.015	1.216	323.337
	2007	253.455	38.128	35.470	2.032	0.017	1.215	330.318
	2008	259.623	38.981	36.356	2.130	0.019	1.216	338.325
	2009	265.878	39.884	37.251	2.232	0.021	1.217	346.482
	2010	272.137	40.785	38.094	2.336	0.023	1.218	354.594
	2011	278.397	41.829	38.971	2.427	0.025	1.217	362.866
	2012	284.336	42.776	39.745	2.519	0.027	1.217	370.620
	2013	289.944	43.672	40.444	2.605	0.029	1.218	377.912
	2014	295.683	44.590	41.137	2.689	0.031	1.219	385.348
	2015	301.384	45.486	41.804	2.772	0.032	1.219	392.697
D I E S E L I N E	2016	307.145	46.384	42.473	2.852	0.034	1.220	400.108
	2017	312.725	47.227	43.100	2.930	0.035	1.221	407.238
	2020	328.869	49.493	44.786	3.144	0.039	1.225	427.555
	2025	352.297	52.339	47.034	3.469	0.043	1.237	456.419
	2003	1.371	0.044	3.391	8.729	7.850	0.000	21.385
	2004	1.513	0.037	3.966	9.267	7.874	0.000	22.659
	2005	1.372	0.027	3.977	9.417	8.214	0.000	23.008
	2006	1.263	0.022	3.941	9.628	8.562	0.000	23.416
	2007	1.173	0.018	3.903	9.786	8.839	0.000	23.718
	2008	1.100	0.016	3.884	9.995	9.171	0.000	24.167
	2009	1.036	0.014	3.874	10.225	9.529	0.000	24.678
	2010	0.979	0.013	3.866	10.459	9.902	0.000	25.218
	2011	0.932	0.012	3.868	10.634	10.230	0.000	25.675
	2012	0.887	0.011	3.865	10.820	10.574	0.000	26.156
	2013	0.847	0.010	3.861	10.999	10.910	0.000	26.626
	2014	0.813	0.009	3.864	11.188	11.242	0.000	27.117
	2015	0.786	0.009	3.871	11.378	11.568	0.000	27.612
	2016	0.765	0.008	3.886	11.573	11.890	0.000	28.121
	2017	0.747	0.007	3.902	11.771	12.202	0.000	28.629
	2020	0.712	0.006	3.963	12.432	13.080	0.000	30.193
	2025	0.689	0.005	4.104	13.579	14.398	0.000	32.775

Figure-11

CALIFORNIA VEHICLE MILES OF TRAVEL BY BODY TYPE



**Figure-12**  
**CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION**



### CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION

Year	VFC	%-CH
2003	17.780	□
2004	18.166	2.171
2005	18.512	1.905
2006	18.940	2.312
2007	19.278	1.785
2008	19.682	2.096
2009	20.101	2.129
2010	20.526	2.114
2011	20.943	2.032
2012	21.341	1.900
2013	21.717	1.762
2014	22.111	1.814
2015	22.500	1.759
2016	22.898	1.769
2017	23.296	1.738
2018	23.662	1.571
2019	24.048	1.631
2020	24.411	1.509
2021	24.745	1.368
2022	25.089	1.390
2023	25.412	1.287
2024	25.752	1.338
2025	26.056	1.180

VFC in Billion Gallons

### C. Vehicle Fuel Consumption

Statewide total on-road fuel consumption projected by the forecast is given in Figure-12. The values represent total gasoline and diesel fuel used on all public roads. The base year (2003) values are estimates using Board of Equalization data. Forecasts beyond 2003 use the MVSTAFF process with the 2003 estimate as a base.

As can be seen from Figure-12, on-road fuel consumption is expected to increase 2.17% in 2004. Annual fuel consumption by vehicle type and fuel type for each year of the forecast is given in Table-3. Total fuel consumption is expected to increase for autos and all types of trucks. Diesel fuel consumption for autos and light trucks are decreasing because the numbers of these total vehicles are projected to decrease.

Figure-13 graphs the annual total fuel consumption of the vehicle fleet by body type for years 2003 to 2025. The graphs correspond to the data given in the upper part of Table-3. Although motorcycle fuel consumption is not shown as a separate entry in the figure, it is included in the "Total" graph.

Table-3: CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION (BILLIONS)

VEH. TYPE	CAL. YEAR	AUTOS	BODY TYPE				TOTAL
			TRK1	TRK2	TRK3	TRK4	
T O T A L	2003	10.685	2.031	2.360	1.339	1.342	0.023 17.780
	2004	10.992	1.938	2.483	1.391	1.338	0.023 18.166
	2005	11.158	1.960	2.560	1.420	1.389	0.024 18.512
	2006	11.391	2.006	2.621	1.457	1.441	0.024 18.940
	2007	11.580	2.042	2.664	1.486	1.481	0.024 19.278
	2008	11.805	2.081	2.718	1.523	1.530	0.024 19.682
	2009	12.033	2.125	2.773	1.563	1.583	0.024 20.101
	2010	12.264	2.168	2.826	1.605	1.638	0.024 20.526
	2011	12.493	2.218	2.883	1.638	1.686	0.024 20.943
	2012	12.710	2.264	2.934	1.672	1.736	0.024 21.341
	2013	12.918	2.308	2.979	1.704	1.784	0.024 21.717
	2014	13.138	2.353	3.024	1.739	1.832	0.024 22.111
	2015	13.360	2.397	3.069	1.772	1.878	0.024 22.500
	2016	13.587	2.441	3.115	1.807	1.924	0.024 22.898
	2017	13.821	2.484	3.157	1.841	1.968	0.024 23.296
G A S O L	2020	14.476	2.595	3.274	1.950	2.092	0.024 24.411
	2025	15.449	2.742	3.434	2.133	2.274	0.025 26.056
	2003	10.636	2.029	2.168	0.253	0.002	0.023 15.112
	2004	10.937	1.937	2.259	0.241	0.002	0.023 15.399
	2005	11.109	1.959	2.334	0.254	0.002	0.024 15.683
I N E	2006	11.346	2.005	2.396	0.268	0.003	0.024 16.042
	2007	11.539	2.041	2.442	0.279	0.003	0.024 16.328
	2008	11.766	2.081	2.497	0.292	0.003	0.024 16.664
	2009	11.997	2.124	2.552	0.306	0.004	0.024 17.007
	2010	12.230	2.167	2.605	0.320	0.004	0.024 17.351
	2011	12.460	2.218	2.662	0.332	0.004	0.024 17.700
	2012	12.678	2.264	2.713	0.344	0.005	0.024 18.028
	2013	12.888	2.308	2.758	0.356	0.005	0.024 18.340
	2014	13.109	2.353	2.803	0.367	0.005	0.024 18.662
	2015	13.333	2.396	2.848	0.378	0.006	0.024 18.985
	2016	13.560	2.440	2.893	0.389	0.006	0.024 19.312
	2017	13.795	2.484	2.934	0.400	0.006	0.024 19.643
	2020	14.451	2.595	3.048	0.429	0.007	0.024 20.553
	2025	15.424	2.742	3.200	0.473	0.007	0.025 21.871
D I E S E L	2003	0.049	0.002	0.192	1.085	1.340	0.000 2.668
	2004	0.055	0.002	0.225	1.150	1.336	0.000 2.767
	2005	0.049	0.001	0.226	1.166	1.387	0.000 2.828
	2006	0.045	0.001	0.224	1.190	1.438	0.000 2.898
	2007	0.042	0.001	0.222	1.207	1.478	0.000 2.951
	2008	0.039	0.001	0.222	1.231	1.526	0.000 3.019
	2009	0.036	0.001	0.221	1.258	1.579	0.000 3.095
	2010	0.034	0.001	0.221	1.285	1.634	0.000 3.175
	2011	0.034	0.000	0.221	1.306	1.682	0.000 3.242
	2012	0.032	0.000	0.221	1.328	1.731	0.000 3.312
	2013	0.029	0.000	0.221	1.349	1.779	0.000 3.378
	2014	0.028	0.000	0.221	1.372	1.827	0.000 3.448
	2015	0.028	0.000	0.221	1.394	1.873	0.000 3.516
	2016	0.027	0.000	0.222	1.418	1.918	0.000 3.586
	2017	0.026	0.000	0.223	1.441	1.962	0.000 3.653
	2020	0.025	0.000	0.226	1.521	2.085	0.000 3.858
	2025	0.024	0.000	0.235	1.660	2.267	0.000 4.186

Figure-13

CALIFORNIA VEHICLE FUEL CONSUMPTION BY BODY TYPE

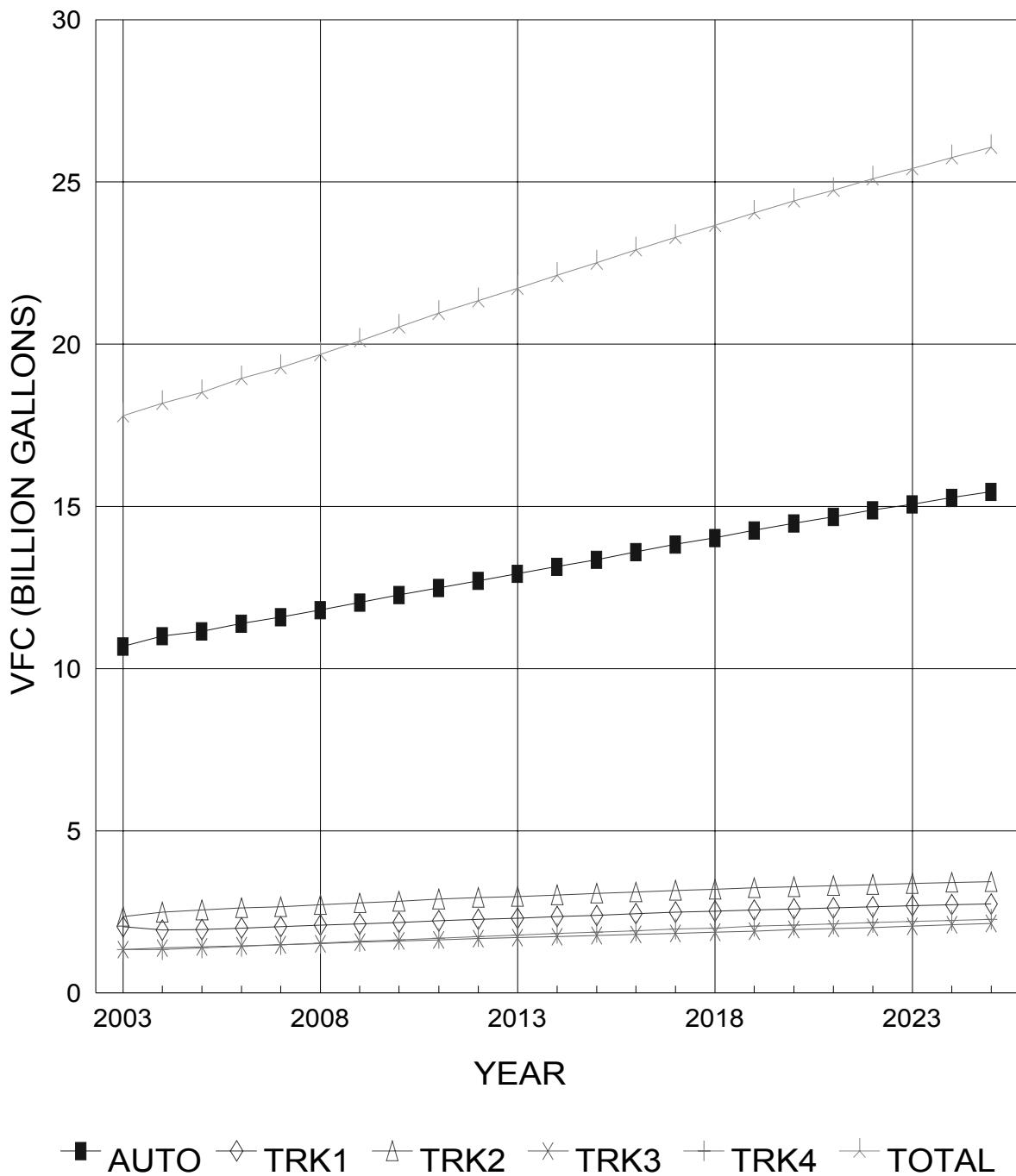
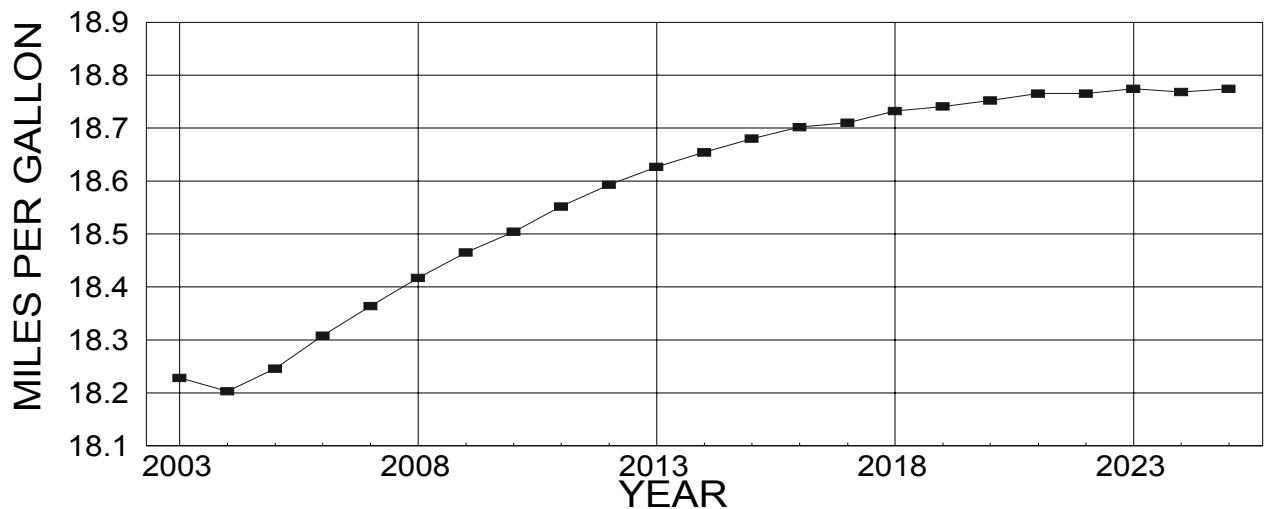


Figure-14  
CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY



CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY

Year	MPG	%-CH
2003	18.228	□
2004	18.203	-0.137
2005	18.246	0.236
2006	18.308	0.340
2007	18.364	0.306
2008	18.417	0.289
2009	18.465	0.261
2010	18.504	0.211
2011	18.552	0.259
2012	18.593	0.221
2013	18.627	0.183
2014	18.654	0.145
2015	18.680	0.139
2016	18.702	0.118
2017	18.710	0.043
2018	18.732	0.118
2019	18.741	0.048
2020	18.752	0.059
2021	18.765	0.069
2022	18.765	0.000
2023	18.774	0.048
2024	18.768	-0.032
2025	18.774	0.032

#### D. Vehicle Fuel Economy

Forecasts of the total fleet on-road fuel economy are given in Figure-14. The results are a direct output of the Stratified Rate Model, which computes the harmonic average fuel economy by weighting the number of vehicles in each stratum by the annual miles of travel and fuel economy of that stratum.

As can be seen from Figure-14, total fleet fuel economy is expected to improve slightly throughout the forecast period. This is the result of the assumption that the new car fleet fuel economy will remain at 27.5 miles per gallon, replacing the older and lower fuel efficiency vehicles.

Fuel economies of the fleet, stratified by body type and fuel type for each year of the forecast, are given in Table-4. Vehicle fuel economy is projected to continuously improve for all strata of vehicles. The greatest improvements are being projected for the heavy trucks. Fuel economy of year 2025 automobile fleet will be slightly (5.03 percent) better than it was in 2003; while the total vehicle fleet fuel economy will be only 2.99 percent better than it was in 2003.

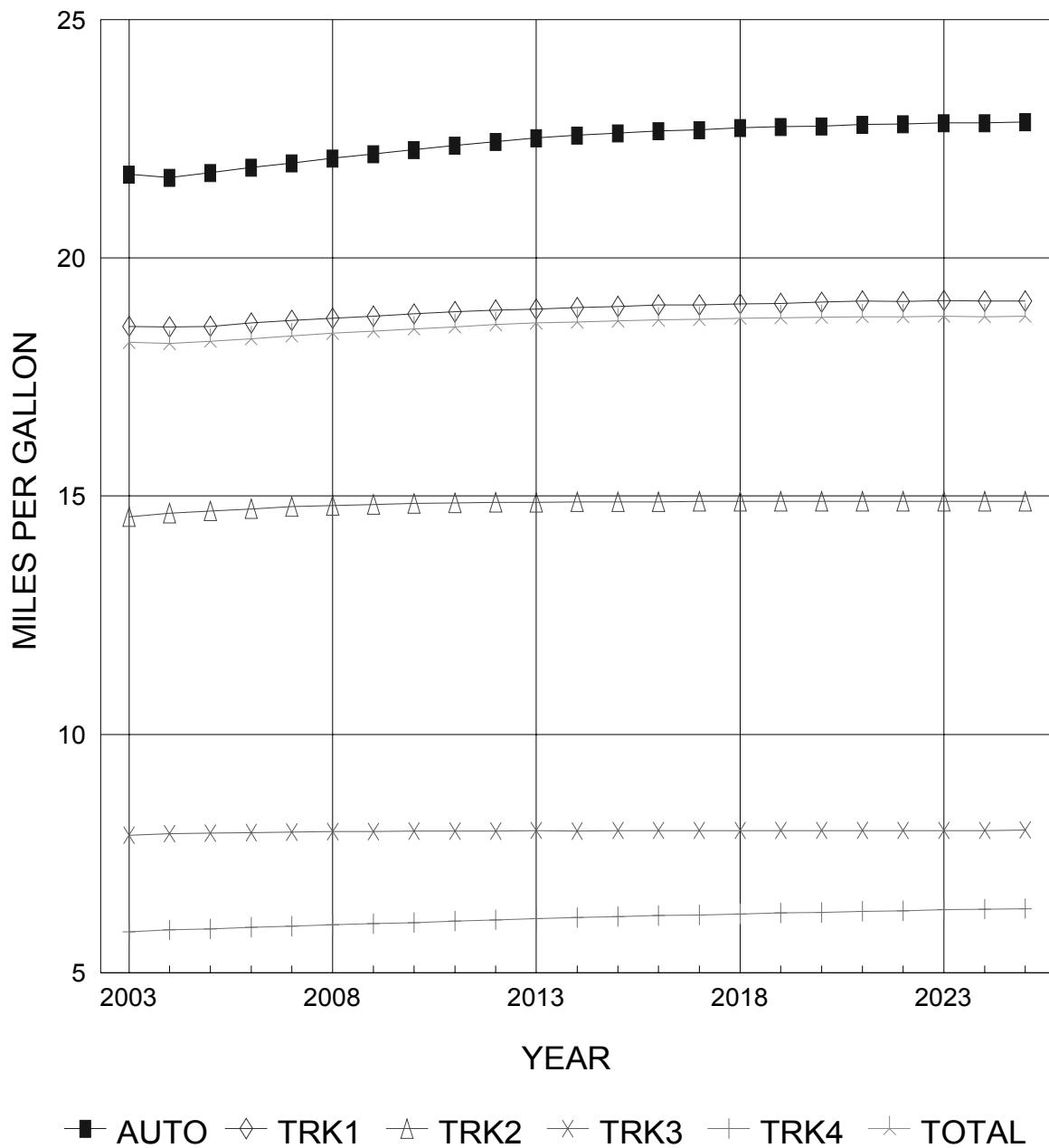
Figure-15 graphs the fuel economy of the vehicle fleet stratified by body type for the years 2003 to 2025. The graphs correspond to the data given in the upper part of Table-4. Although the fuel economy of motorcycles (assumed to be a constant value of 50.0 miles per gallon) is not shown in the figure, its effect is included in the "Total" graph.

Table-4: CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY

VEH. CAL. TYPE	YEAR	AUTOS	BODY TYPE				TOTAL	
			TRK1	TRK2	TRK3	TRK4		
T O T A L	2003	21.755	18.558	14.562	7.888	5.859	50.000	18.228
	2004	21.680	18.548	14.640	7.919	5.894	50.000	18.203
	2005	21.782	18.566	14.693	7.933	5.924	50.000	18.246
	2006	21.895	18.630	14.736	7.942	5.954	50.000	18.308
	2007	21.988	18.684	14.777	7.951	5.979	50.000	18.364
	2008	22.086	18.735	14.803	7.959	6.008	50.000	18.417
	2009	22.182	18.779	14.829	7.969	6.033	50.000	18.465
	2010	22.269	18.819	14.847	7.972	6.058	50.000	18.504
	2011	22.359	18.862	14.858	7.974	6.083	50.000	18.552
	2012	22.440	18.897	14.865	7.978	6.107	50.000	18.593
	2013	22.511	18.927	14.872	7.981	6.132	50.000	18.627
	2014	22.569	18.951	14.881	7.979	6.152	50.000	18.654
	2015	22.617	18.983	14.883	7.984	6.177	50.000	18.680
	2016	22.663	19.007	14.885	7.982	6.196	50.000	18.702
	2017	22.680	19.016	14.890	7.986	6.216	50.000	18.710
G A S O L	2020	22.768	19.073	14.889	7.990	6.271	50.000	18.752
	2025	22.849	19.091	14.891	7.993	6.350	50.000	18.774
	2003	21.727	18.553	14.286	7.228	5.745	50.000	20.031
	2004	21.650	18.544	14.341	7.247	5.757	50.000	20.002
	2005	21.754	18.563	14.411	7.259	5.768	50.000	20.069
I N E D I E L	2006	21.871	18.627	14.470	7.271	5.776	50.000	20.156
	2007	21.966	18.682	14.524	7.284	5.785	50.000	20.230
	2008	22.065	18.733	14.561	7.290	5.794	50.000	20.303
	2009	22.162	18.778	14.596	7.302	5.799	50.000	20.373
	2010	22.251	18.818	14.621	7.308	5.804	50.000	20.436
	2011	22.344	18.861	14.638	7.308	5.814	50.000	20.500
	2012	22.427	18.896	14.650	7.314	5.818	50.000	20.558
	2013	22.497	18.926	14.662	7.320	5.822	50.000	20.606
	2014	22.555	18.950	14.674	7.320	5.822	50.000	20.648
	2015	22.605	18.982	14.679	7.327	5.827	50.000	20.685
	2016	22.651	19.006	14.684	7.327	5.832	50.000	20.718
	2017	22.670	19.016	14.691	7.327	5.832	50.000	20.732
	2020	22.758	19.072	14.695	7.333	5.836	50.000	20.802
	2025	22.841	19.091	14.700	7.333	5.845	50.000	20.869
D I E S E L	2003	27.828	23.842	17.687	8.042	5.860	0.000	8.016
	2004	27.673	23.837	17.645	8.061	5.894	0.000	8.190
	2005	27.961	23.517	17.599	8.080	5.924	0.000	8.135
	2006	27.989	26.314	17.570	8.092	5.954	0.000	8.080
	2007	28.098	24.008	17.550	8.105	5.979	0.000	8.038
	2008	28.208	23.997	17.534	8.118	6.009	0.000	8.005
	2009	28.718	23.997	17.524	8.131	6.034	0.000	7.975
	2010	28.767	23.996	17.516	8.137	6.058	0.000	7.943
	2011	27.796	23.978	17.510	8.143	6.083	0.000	7.919
	2012	27.585	23.993	17.507	8.150	6.108	0.000	7.897
	2013	28.778	24.002	17.505	8.156	6.133	0.000	7.883
	2014	28.689	24.021	17.505	8.156	6.153	0.000	7.864
	2015	28.532	24.014	17.504	8.162	6.178	0.000	7.854
	2016	28.391	23.970	17.503	8.162	6.198	0.000	7.843
	2017	28.333	23.993	17.501	8.169	6.217	0.000	7.837
	2020	28.359	23.976	17.499	8.175	6.272	0.000	7.826
	2025	28.320	24.021	17.500	8.181	6.352	0.000	7.830

Figure-15

CALIFORNIA VEHICLE FLEET FUEL ECONOMY BY BODY TYPE



## REFERENCES

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2. The DRI-WEFA Group, "U.S. Economy, The 25-Year Focus", Spring Issue, 2002.
3. State of California, Department of Finance, E-2 California County Population Estimates and Components of Change, Revised July 1, 2000 – 2003, February 11, 2004.
4. State of California, Department of Finance, Population Projections by Race/Ethnicity for California and Its Counties 2000-2050, Sacramento., California, May 2004.
5. R. L. Polk, "Annual National Vehicle Population Profile, California", 1983, 1984, 1986, 1988, 1990, 1992.
6. U.S. Department of Commerce, Bureau of the Census, "Truck Inventory and Use Survey", 1977, 1982, 1987 and 1992.
7. U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey", 1997.

## APPENDIX A

### Vehicle Body Type Definitions:

The motor vehicle fleet is stratified into six classes by body type, one class of autos, four classes of trucks by gross vehicle weight and one class of motorcycles. These are defined as follows:

- AUTOS AUTOS include all passenger vehicles registered as regular autos and station wagons.
- TRK1 TRK1 includes all Truck Gross Vehicle Weight Class 1 trucks (GVW 0 to 6,000 lbs.)
- TRK2 TRK2 includes all Truck Gross Vehicle Weight Class 2 trucks (GVW 6,001 to 10,000 lbs.)
- TRK3 TRK3 includes trucks of Truck Gross Vehicle Weight Classes 3 (GVW 10,001 to 14,000 lbs.), 4 (GVW 14,001 to 16,000 lbs.), 5 (GVW 16,001 to 19,500 lbs.), 6 (GVW 19,501 to 26,000 lbs.), and 7 (GVW 26,001 to 33,000 lbs.)
- TRK4 TRK4 includes all trucks of Truck Gross Vehicle Weight Classes 8 and above (GVW 33,001+ lbs.)
- MC MC includes all registered motorcycles which excludes motor-bicycles and off-road motor-powered dirt bikes.

## APPENDIX B

### CALIFORNIA VEHICLE MILES/KILOMETERS OF TRAVEL BY COUNTY AND ROAD SYSTEM

**1990 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	7152.000	4279.340	11431.340
ALPINE	41.000	7.262	48.262
AMADOR	223.000	61.620	284.620
BUTTE	540.000	915.457	1455.457
CALAVERAS	215.000	89.559	304.559
COLUSA	347.000	102.236	449.236
CONTRA COSTA	3445.000	3246.368	6691.368
DEL NORTE	150.000	61.124	211.124
EL DORADO	757.000	474.890	1231.890
FRESNO	2066.000	3172.677	5238.677
GLENN	290.000	91.583	381.583
HUMBOLDT	661.000	408.296	1069.296
IMPERIAL	800.000	452.897	1252.897
INYO	382.000	65.501	447.501
KERN	3275.000	2022.720	5297.720
KINGS	489.000	417.384	906.384
LAKE	256.000	120.888	376.888
LASSEN	265.000	200.682	465.682
LOS ANGELES	34243.000	37622.039	71865.040
MADERA	655.000	281.274	936.274
MARIN	1409.000	1082.729	2491.729
MARIPOSA	105.000	103.366	208.366
MENDOCINO	619.000	346.644	965.644
MERCED	1289.000	470.881	1759.881
MODOC	83.000	60.075	143.075
MONO	276.000	24.399	300.399
MONTEREY	1710.000	1372.504	3082.504
NAPA	531.000	356.069	887.069
NEVADA	565.000	308.774	873.774
ORANGE	11304.000	11466.120	22770.120
PLACER	1295.000	702.972	1997.972
PLUMAS	160.000	99.828	259.828
RIVERSIDE	7170.000	4289.729	11459.730
SACRAMENTO	3771.000	5032.580	8803.580
SAN BENITO	255.000	93.997	348.997
SAN BERNARDINO	8593.000	4624.414	13217.410
SAN DIEGO	12088.000	9415.592	21503.590
SAN FRANCISCO	1441.000	2191.836	3632.836
SAN JOAQUIN	2415.000	1931.905	4346.905
SAN LUIS OBISPO	1482.000	698.928	2180.928
SAN MATEO	4212.000	2003.598	6215.598
SANTA BARBARA	1963.000	1055.183	3018.183
SANTA CLARA	5915.000	7116.808	13031.810
SANTA CRUZ	892.000	846.475	1738.475
SHASTA	973.000	614.108	1587.108
SIERRA	60.000	29.915	89.915
SISKIYOU	570.000	199.754	769.754
SOLANO	2381.000	970.847	3351.847
SONOMA	1605.000	1425.999	3030.999
STANISLAUS	1268.000	1509.908	2777.908
SUTTER	320.000	275.183	595.183
TEHAMA	516.000	215.304	731.304
TRINITY	117.000	25.272	142.272
TULARE	1173.000	1300.106	2473.106
TUOLUMNE	291.000	190.485	481.485
VENTURA	2931.000	2464.488	5395.488
YOLO	979.000	533.314	1512.314
YUBA	230.000	250.136	480.136
<b>TOTAL</b>	<b>139209.000</b>	<b>119794.000</b>	<b>259003.000</b>

**1990 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	11510.028	6886.930	18396.959
ALPINE	65.983	11.687	77.670
AMADOR	358.884	99.168	458.051
BUTTE	869.046	1473.285	2342.331
CALAVERAS	346.009	144.131	490.140
COLUSA	558.442	164.533	722.975
CONTRA COSTA	5544.190	5224.523	10768.713
DEL NORTE	241.402	98.370	339.771
EL DORADO	1218.273	764.261	1982.535
FRESNO	3324.905	5105.929	8430.833
GLENN	466.710	147.389	614.098
HUMBOLDT	1063.776	657.089	1720.865
IMPERIAL	1287.475	728.867	2016.342
INYO	614.769	105.414	720.183
KERN	5270.602	3255.252	8525.854
KINGS	786.969	671.714	1458.684
LAKE	411.992	194.550	606.542
LASSEN	426.476	322.966	749.443
LOS ANGELES	55108.766	60546.805	115655.571
MADERA	1054.120	452.667	1506.787
MARIN	2267.566	1742.483	4010.049
MARIPOSA	168.981	166.351	335.333
MENDOCINO	996.184	557.869	1554.053
MERCED	2074.444	757.810	2832.254
MODOC	133.576	96.681	230.257
MONO	444.179	39.266	483.445
MONTEREY	2751.978	2208.831	4960.809
NAPA	854.562	573.038	1427.599
NEVADA	909.279	496.924	1406.203
ORANGE	18192.025	18452.932	36644.956
PLACER	2084.101	1131.324	3215.424
PLUMAS	257.495	160.658	418.153
RIVERSIDE	11538.996	6903.649	18442.648
SACRAMENTO	6068.836	8099.152	14167.989
SAN BENITO	410.383	151.274	561.656
SAN BERNARDINO	13829.093	7442.273	21271.360
SAN DIEGO	19453.750	15152.927	34606.674
SAN FRANCISCO	2319.065	3527.418	5846.483
SAN JOAQUIN	3886.566	3109.100	6995.666
SAN LUIS OBISPO	2385.048	1124.816	3509.863
SAN MATEO	6778.557	3224.479	10003.035
SANTA BARBARA	3159.142	1698.152	4857.295
SANTA CLARA	9519.270	11453.393	20972.665
SANTA CRUZ	1435.535	1362.269	2797.804
SHASTA	1565.892	988.311	2554.203
SIERRA	96.561	48.144	144.704
SISKIYOU	917.326	321.473	1238.799
SOLANO	3831.848	1562.427	5394.275
SONOMA	2582.997	2294.923	4877.920
STANISLAUS	2040.648	2429.961	4470.610
SUTTER	514.990	442.864	957.854
TEHAMA	830.422	346.498	1176.920
TRINITY	188.293	40.671	228.965
TULARE	1887.760	2092.318	3980.078
TUOLUMNE	468.319	306.556	774.875
VENTURA	4716.987	3966.209	8683.196
YOLO	1575.548	858.286	2433.833
YUBA	370.149	402.555	772.704
<b>TOTAL</b>	<b>224035.172</b>	<b>192789.750</b>	<b>416824.925</b>

**1995 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	7446.094	4978.716	12424.810
ALPINE	42.031	8.258	50.288
AMADOR	245.670	84.153	329.823
BUTTE	607.915	981.743	1589.659
CALAVERAS	250.213	115.479	365.692
COLUSA	392.990	109.167	502.157
CONTRA COSTA	3643.810	3466.372	7110.182
DEL NORTE	157.375	67.824	225.199
EL DORADO	802.615	660.853	1463.468
FRESNO	2349.317	3697.812	6047.128
GLENN	322.618	120.538	443.156
HUMBOLDT	686.710	442.605	1129.314
IMPERIAL	880.310	502.488	1382.798
INYO	373.176	72.673	445.849
KERN	3692.823	2365.436	6058.259
KINGS	517.071	450.224	967.295
LAKE	298.372	159.667	458.039
LASSEN	313.735	243.389	557.124
LOS ANGELES	35077.895	38915.496	73993.391
MADERA	778.416	345.037	1123.453
MARIN	1433.790	1123.358	2557.148
MARISPOSA	125.356	114.461	239.817
MENDOCINO	646.967	419.624	1066.591
MERCED	1349.182	740.422	2089.604
MODOC	92.546	68.090	160.636
MONO	251.333	26.732	278.064
MONTEREY	1803.910	1421.387	3225.297
NAPA	536.263	373.575	909.837
NEVADA	634.526	344.081	978.607
ORANGE	11224.334	11905.607	23129.941
PLACER	1489.990	1039.482	2529.472
PLUMAS	180.789	109.287	290.076
RIVERSIDE	7380.951	4928.492	12309.442
SACRAMENTO	4193.164	5100.004	9293.169
SAN BENITO	285.832	119.000	404.832
SAN BERNARDINO	9716.704	5973.938	15690.642
SAN DIEGO	12603.485	10450.808	23054.293
SAN FRANCISCO	1503.313	2221.684	3724.997
SAN JOAQUIN	2818.117	2100.808	4918.925
SAN LUIS OBISPO	1557.005	767.077	2324.082
SAN MATEO	4271.216	2162.862	6434.078
SANTA BARBARA	2016.736	1165.377	3182.114
SANTA CLARA	6202.178	7372.168	13574.347
SANTA CRUZ	964.584	901.866	1866.449
SHASTA	1076.579	674.745	1751.324
SIERRA	57.836	28.706	86.542
SISKIYOU	579.600	279.885	859.485
SOLANO	2612.947	1109.651	3722.597
SONOMA	1752.949	1604.533	3357.483
STANISLAUS	1373.184	2049.389	3422.573
SUTTER	370.762	303.935	674.697
TEHAMA	553.252	235.268	788.520
TRINITY	113.962	31.776	145.738
TULARE	1341.240	1462.093	2803.333
TUOLUMNE	293.840	210.761	504.601
VENTURA	3117.036	2664.815	5781.852
YOLO	1063.659	563.462	1627.121
YUBA	246.729	295.853	542.581
<b>TOTAL</b>	<b>146715.016</b>	<b>130252.969</b>	<b>276968.000</b>

**1995 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	11983.327	8012.467	19995.793
ALPINE	67.642	13.290	80.931
AMADOR	395.368	135.431	530.799
BUTTE	978.344	1579.962	2558.308
CALAVERAS	402.679	185.845	588.524
COLUSA	632.456	175.687	808.143
CONTRA COSTA	5864.144	5578.585	11442.729
DEL NORTE	253.271	109.152	362.423
EL DORADO	1291.684	1063.540	2355.223
FRESNO	3780.859	5951.052	9731.909
GLENN	519.203	193.987	713.190
HUMBOLDT	1105.153	712.304	1817.455
IMPERIAL	1416.722	808.676	2225.398
INYO	600.569	116.956	717.524
KERN	5943.022	3806.800	9749.823
KINGS	832.145	724.565	1556.710
LAKE	480.183	256.959	737.142
LASSEN	504.908	391.697	896.604
LOS ANGELES	56452.398	62628.422	119080.820
MADERA	1252.739	555.283	1808.022
MARIN	2307.461	1807.870	4115.331
MARISPOSA	201.741	184.207	385.948
MENDOCINO	1041.193	675.319	1716.512
MERCED	2171.298	1191.594	3362.892
MODOC	148.938	109.580	258.519
MONO	404.481	43.021	447.501
MONTEREY	2903.112	2287.501	5190.612
NAPA	863.032	601.211	1464.241
NEVADA	1021.171	553.745	1574.915
ORANGE	18063.814	19160.217	37224.032
PLACER	2397.906	1672.884	4070.791
PLUMAS	290.952	175.880	466.832
RIVERSIDE	11878.489	7931.639	19810.127
SACRAMENTO	6748.243	8207.661	14955.906
SAN BENITO	460.002	191.512	651.514
SAN BERNARDINO	15637.520	9614.121	25251.641
SAN DIEGO	20283.344	16818.945	37102.288
SAN FRANCISCO	2419.348	3575.454	5994.802
SAN JOAQUIN	4535.320	3380.923	7916.242
SAN LUIS OBISPO	2505.757	1234.491	3740.247
SAN MATEO	6873.856	3480.789	10354.645
SANTA BARBARA	3245.622	1875.492	5121.116
SANTA CLARA	9981.438	11864.354	21845.794
SANTA CRUZ	1552.348	1451.413	3003.759
SHASTA	1732.586	1085.897	2818.483
SIERRA	93.078	46.198	139.276
SISKIYOU	932.776	450.431	1383.207
SOLANO	4205.130	1785.810	5990.939
SONOMA	2821.098	2582.246	5403.345
STANISLAUS	2209.926	3298.172	5508.097
SUTTER	596.684	489.136	1085.820
TEHAMA	890.373	378.627	1269.000
TRINITY	183.404	51.139	234.543
TULARE	2158.517	2353.010	4511.527
TUOLUMNE	472.890	339.187	812.077
VENTURA	5016.383	4288.604	9304.989
YOLO	1711.793	906.804	2618.597
YUBA	397.072	476.129	873.199
<b>TOTAL</b>	<b>236114.938</b>	<b>209621.828</b>	<b>445736.791</b>

**2000 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	8532.969	5493.258	14026.227
ALPINE	44.501	12.415	56.916
AMADOR	261.405	106.558	367.963
BUTTE	642.613	1357.711	2000.324
CALAVERAS	243.504	142.448	385.952
COLUSA	406.608	116.190	522.798
CONTRA COSTA	4220.383	3731.079	7951.462
DEL NORTE	153.903	87.401	241.304
EL DORADO	845.416	772.738	1618.154
FRESNO	2709.153	4116.970	6826.123
GLENN	308.507	130.725	439.231
HUMBOLDT	702.814	509.308	1212.122
IMPERIAL	1105.722	537.656	1643.377
INYO	404.908	115.702	520.609
KERN	4192.583	2823.800	7016.383
KINGS	649.413	459.336	1108.749
LAKE	308.406	184.271	492.677
LASSEN	295.605	284.158	579.764
LOS ANGELES	37403.344	41684.074	79087.418
MADERA	899.117	421.758	1320.876
MARIN	1552.530	1225.938	2778.469
MARIPOSA	122.002	139.324	261.326
MENDOCINO	689.414	449.632	1139.046
MERCED	1485.529	729.629	2215.158
MODOC	80.501	108.529	189.030
MONO	237.404	56.436	293.840
MONTEREY	2038.840	1544.548	3583.388
NAPA	675.513	473.885	1149.399
NEVADA	699.614	385.486	1085.100
ORANGE	12808.053	13008.400	25816.453
PLACER	1721.234	1188.512	2909.746
PLUMAS	176.203	178.069	354.272
RIVERSIDE	8394.666	5709.839	14104.505
SACRAMENTO	4959.698	5443.629	10403.327
SAN BENITO	347.107	185.868	532.974
SAN BERNARDINO	10485.908	6687.920	17173.828
SAN DIEGO	14770.092	11364.967	26135.058
SAN FRANCISCO	1562.730	2288.854	3851.584
SAN JOAQUIN	3116.562	2354.441	5471.002
SAN LUIS OBISPO	1734.235	896.256	2630.490
SAN MATEO	4910.597	2475.690	7386.287
SANTA BARBARA	2221.044	1345.261	3566.305
SANTA CLARA	7670.652	7736.795	15407.447
SANTA CRUZ	1011.820	1025.191	2037.011
SHASTA	1070.022	829.130	1899.152
SIERRA	65.801	44.724	110.525
SISKIYOU	579.412	301.579	880.991
SOLANO	2929.859	1337.424	4267.283
SONOMA	1898.838	1764.106	3662.944
STANISLAUS	1389.727	1995.865	3385.592
SUTTER	393.708	350.794	744.501
TEHAMA	560.411	273.792	834.203
TRINITY	110.602	72.922	183.525
TULARE	1510.930	1566.262	3077.192
TUOLUMNE	300.706	266.179	566.886
VENTURA	3482.669	2939.111	6421.780
YOLO	1182.924	657.314	1840.238
YUBA	278.605	324.130	602.736
<b>TOTAL</b>	<b>163557.000</b>	<b>142814.000</b>	<b>306371.000</b>

**2000 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	13732.482	8840.542	22573.024
ALPINE	71.617	19.980	91.597
AMADOR	420.691	171.488	592.179
BUTTE	1034.185	2185.024	3219.209
CALAVERAS	391.882	229.248	621.130
COLUSA	654.372	186.990	841.362
CONTRA COSTA	6792.048	6004.590	12796.638
DEL NORTE	247.683	140.658	388.341
EL DORADO	1360.565	1243.601	2604.166
FRESNO	4359.959	6625.621	10985.580
GLENN	496.494	210.382	706.874
HUMBOLDT	1131.069	819.652	1950.721
IMPERIAL	1779.487	865.273	2644.759
INYO	651.636	186.204	837.839
KERN	6747.308	4544.466	11291.774
KINGS	1045.129	739.230	1784.359
LAKE	496.331	296.555	792.887
LASSEN	475.730	457.308	933.040
LOS ANGELES	60194.848	67084.016	127278.862
MADERA	1446.989	678.754	2125.744
MARIN	2498.555	1972.956	4471.512
MARIPOSA	196.343	224.220	420.563
MENDOCINO	1109.504	723.613	1833.117
MERCED	2390.727	1174.224	3564.951
MODOC	129.554	174.660	304.214
MONO	382.065	90.825	472.890
MONTEREY	3281.195	2485.709	5766.904
NAPA	1087.133	762.644	1849.778
NEVADA	1125.920	620.380	1746.299
ORANGE	20612.563	20934.990	41547.554
PLACER	2770.058	1912.725	4682.782
PLUMAS	283.571	286.574	570.146
RIVERSIDE	13509.905	9189.095	22699.001
SACRAMENTO	7981.860	8760.672	16742.532
SAN BENITO	558.615	299.126	857.739
SAN BERNARDINO	16875.434	10763.164	27638.597
SAN DIEGO	23770.158	18290.141	42060.299
SAN FRANCISCO	2514.970	3683.553	6198.524
SAN JOAQUIN	5015.621	3789.105	8804.724
SAN LUIS OBISPO	2790.981	1442.384	4233.363
SAN MATEO	7902.840	3984.237	11887.077
SANTA BARBARA	3574.424	2164.988	5739.412
SANTA CLARA	12344.718	12451.165	24795.882
SANTA CRUZ	1628.366	1649.885	3278.251
SHASTA	1722.033	1334.355	3056.389
SIERRA	105.896	71.976	177.873
SISKIYOU	932.473	485.344	1417.818
SOLANO	4715.151	2152.375	6867.526
SONOMA	3055.884	2839.053	5894.937
STANISLAUS	2236.549	3212.033	5448.582
SUTTER	633.612	564.548	1198.158
TEHAMA	901.894	440.626	1342.520
TRINITY	177.997	117.357	295.355
TULARE	2431.606	2520.654	4952.260
TUOLUMNE	483.939	428.374	912.315
VENTURA	5604.813	4730.041	10334.853
YOLO	1903.732	1057.844	2961.576
YUBA	448.371	521.637	970.010
<b>TOTAL</b>	<b>263219.469</b>	<b>229836.859</b>	<b>493056.332</b>

**2003 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	8601.500	5584.390	14185.889
ALPINE	49.600	12.958	62.558
AMADOR	298.200	109.264	407.464
BUTTE	673.400	1089.479	1762.879
CALAVERAS	277.700	146.885	424.585
COLUSA	468.900	118.908	587.808
CONTRA COSTA	4595.101	3884.004	8479.105
DEL NORTE	130.500	90.014	220.514
EL DORADO	849.000	771.944	1620.944
FRESNO	3181.000	4303.120	7484.120
GLENN	350.700	146.446	497.146
HUMBOLDT	709.300	511.407	1220.707
IMPERIAL	1176.600	590.659	1767.259
INYO	404.700	113.178	517.878
KERN	5793.899	2960.651	8754.550
KINGS	755.100	512.710	1267.810
LAKE	318.100	189.017	507.117
LASSEN	291.300	295.197	586.497
LOS ANGELES	38628.301	42304.426	80932.727
MADERA	996.000	435.501	1431.501
MARIN	1543.800	1290.082	2833.882
MARIPOSA	128.000	141.203	269.203
MENDOCINO	692.300	467.356	1159.656
MERCED	1710.500	748.272	2458.772
MODOC	81.500	104.843	186.343
MONO	242.700	54.371	297.071
MONTEREY	2218.200	1601.547	3819.747
NAPA	690.600	465.473	1156.073
NEVADA	656.300	420.462	1076.762
ORANGE	13484.701	12958.325	26443.027
PLACER	1798.000	1517.597	3315.597
PLUMAS	170.700	190.079	360.779
RIVERSIDE	10247.200	6339.470	16586.670
SACRAMENTO	5284.299	6118.851	11403.150
SAN BENITO	330.700	183.772	514.472
SAN BERNARDINO	12095.800	7230.711	19326.511
SAN DIEGO	15939.301	11966.438	27905.739
SAN FRANCISCO	1293.700	2373.343	3667.043
SAN JOAQUIN	3831.200	2360.308	6191.508
SAN LUIS OBISPO	1848.700	1001.677	2850.377
SAN MATEO	4853.299	2462.811	7316.110
SANTA BARBARA	2337.700	1350.443	3688.143
SANTA CLARA	7930.601	7996.348	15926.949
SANTA CRUZ	1041.100	1032.028	2073.128
SHASTA	1144.800	869.747	2014.547
SIERRA	61.700	45.114	106.814
SISKIYOU	596.300	301.584	897.884
SOLANO	3205.900	1436.151	4642.051
SONOMA	2066.000	1817.501	3883.501
STANISLAUS	1667.000	2074.104	3741.104
SUTTER	452.900	348.115	801.015
TEHAMA	616.400	280.057	896.457
TRINITY	114.600	64.849	179.449
TULARE	1687.800	1616.794	3304.594
TUOLUMNE	336.000	272.411	608.411
VENTURA	3718.101	3111.468	6829.568
YOLO	1314.700	680.951	1995.651
YUBA	317.400	322.801	640.201
 TOTAL	 176299.406	 147787.594	 324087.000

**2003 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	13842.772	8987.204	22829.975
ALPINE	79.823	20.854	100.677
AMADOR	479.906	175.843	655.750
BUTTE	1083.732	1753.347	2837.079
CALAVERAS	446.915	236.388	683.303
COLUSA	754.621	191.364	945.985
CONTRA COSTA	7395.098	6250.699	13645.797
DEL NORTE	210.019	144.863	354.883
EL DORADO	1366.333	1242.323	2608.657
FRESNO	5119.323	6925.200	12044.524
GLENN	564.397	235.682	800.079
HUMBOLDT	1141.508	823.030	1964.537
IMPERIAL	1893.554	950.574	2844.128
INYO	651.302	182.142	833.444
KERN	9324.377	4764.706	14089.083
KINGS	1215.216	825.127	2040.342
LAKE	511.932	304.193	816.126
LASSEN	468.802	475.074	943.875
LOS ANGELES	62166.227	68082.375	130248.599
MADERA	1602.907	700.871	2303.778
MARIN	2484.505	2076.186	4560.691
MARIPOSA	205.996	227.244	433.240
MENDOCINO	1114.149	752.137	1866.285
MERCED	2752.783	1204.227	3957.010
MODOC	131.162	168.728	299.890
MONO	390.588	87.502	478.089
MONTEREY	3569.847	2577.440	6147.287
NAPA	1111.413	749.106	1860.519
NEVADA	1056.213	676.668	1732.880
ORANGE	21701.523	20854.402	42555.927
PLACER	2893.601	2442.336	5335.936
PLUMAS	274.715	305.902	580.618
RIVERSIDE	16491.270	10202.388	26693.658
SACRAMENTO	8504.255	9847.336	18351.591
SAN BENITO	532.210	295.752	827.962
SAN BERNARDINO	19466.303	11636.701	31103.005
SAN DIEGO	25651.818	19258.115	44909.934
SAN FRANCISCO	2082.008	3819.525	5901.534
SAN JOAQUIN	6165.719	3798.548	9964.266
SAN LUIS OBISPO	2975.194	1612.043	4587.237
SAN MATEO	7810.627	3963.510	11774.138
SANTA BARBARA	3762.164	2173.327	5935.491
SANTA CLARA	12763.065	12868.875	25631.940
SANTA CRUZ	1675.488	1660.888	3336.376
SHASTA	1842.377	1399.722	3242.099
SIERRA	99.297	72.604	171.900
SISKIYOU	959.652	485.352	1445.004
SOLANO	5159.396	2311.261	7470.657
SONOMA	3324.905	2924.984	6249.889
STANISLAUS	2682.776	3337.947	6020.723
SUTTER	728.872	560.237	1289.109
TEHAMA	992.000	450.708	1442.708
TRINITY	184.431	104.364	288.795
TULARE	2716.251	2601.978	5318.229
TUOLUMNE	540.740	438.403	979.143
VENTURA	5983.704	5007.422	10991.124
YOLO	2115.804	1095.884	3211.689
YUBA	510.806	519.498	1030.304
<b>TOTAL</b>	<b>283726.406</b>	<b>237841.078</b>	<b>521567.471</b>

**2005 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	8971.459	5834.978	14806.437
ALPINE	51.144	13.385	64.529
AMADOR	308.074	113.083	421.157
BUTTE	700.406	1135.193	1835.599
CALAVERAS	293.379	155.455	448.835
COLUSA	491.751	124.925	616.676
CONTRA COSTA	4835.590	4094.573	8930.162
DEL NORTE	134.448	92.903	227.351
EL DORADO	891.254	811.809	1703.063
FRESNO	3344.168	4531.922	7876.091
GLENN	363.349	151.999	515.347
HUMBOLDT	728.173	525.952	1254.125
IMPERIAL	1245.251	626.238	1871.490
INYO	412.042	115.437	527.479
KERN	6102.114	3123.713	9225.827
KINGS	797.468	542.444	1339.913
LAKE	333.112	198.290	531.402
LASSEN	299.369	303.916	603.285
LOS ANGELES	39703.352	43559.402	83262.758
MADERA	1053.248	461.355	1514.602
MARIN	1572.914	1316.757	2889.671
MARIPOSA	132.705	146.654	279.359
MENDOCINO	714.878	483.459	1198.337
MERCED	1828.414	801.282	2629.697
MODOC	82.691	106.566	189.257
MONO	252.305	56.624	308.929
MONTEREY	2309.376	1670.353	3979.729
NAPA	723.727	488.672	1212.398
NEVADA	686.738	440.747	1127.485
ORANGE	13950.623	13429.990	27380.613
PLACER	1922.668	1625.719	3548.387
PLUMAS	173.494	193.535	367.028
RIVERSIDE	10914.055	6764.074	17678.129
SACRAMENTO	5607.847	6505.089	12112.936
SAN BENITO	347.324	193.355	540.678
SAN BERNARDINO	12691.685	7600.466	20292.150
SAN DIEGO	16603.756	12487.531	29091.287
SAN FRANCISCO	1319.879	2425.692	3745.571
SAN JOAQUIN	4105.816	2534.008	6639.824
SAN LUIS OBISPO	1919.825	1042.071	2961.896
SAN MATEO	4996.119	2539.810	7535.929
SANTA BARBARA	2405.218	1391.927	3797.145
SANTA CLARA	8218.230	8301.154	16519.385
SANTA CRUZ	1071.384	1063.944	2135.328
SHASTA	1201.478	914.437	2115.915
SIERRA	63.519	46.527	110.046
SISKIYOU	608.185	308.144	916.330
SOLANO	3387.893	1520.388	4908.281
SONOMA	2171.390	1913.624	4085.014
STANISLAUS	1752.905	2184.882	3937.787
SUTTER	475.423	366.080	841.503
TEHAMA	639.389	291.021	930.410
TRINITY	116.585	66.090	182.675
TULARE	1785.917	1713.837	3499.753
TUOLUMNE	347.175	281.974	629.148
VENTURA	3848.539	3226.372	7074.911
YOLO	1396.633	724.680	2121.313
YUBA	334.195	340.488	674.683
<b>TOTAL</b>	<b>183740.047</b>	<b>154025.000</b>	<b>337765.031</b>

**2005 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	14438.164	9390.487	23828.651
ALPINE	82.308	21.541	103.849
AMADOR	495.797	181.989	677.786
BUTTE	1127.194	1826.916	2954.110
CALAVERAS	472.148	250.181	722.330
COLUSA	791.397	201.047	992.444
CONTRA COSTA	7782.128	6589.577	14371.703
DEL NORTE	216.373	149.513	365.886
EL DORADO	1434.334	1306.480	2740.814
FRESNO	5381.917	7293.421	12675.340
GLENN	584.754	244.619	829.371
HUMBOLDT	1171.881	846.438	2018.319
IMPERIAL	2004.037	1007.832	3011.871
INYO	663.117	185.778	848.895
KERN	9820.400	5027.129	14847.529
KINGS	1283.400	872.979	2156.381
LAKE	536.092	319.117	855.209
LASSEN	481.788	489.105	970.893
LOS ANGELES	63896.352	70102.063	133998.420
MADERA	1695.038	742.479	2437.516
MARIN	2531.360	2119.115	4650.475
MARIPOSA	213.568	236.017	449.585
MENDOCINO	1150.485	778.052	1928.536
MERCED	2942.547	1289.538	4232.087
MODOC	133.078	171.501	304.580
MONO	406.046	91.127	497.173
MONTEREY	3716.580	2688.173	6404.753
NAPA	1164.726	786.441	1951.165
NEVADA	1105.198	709.314	1814.511
ORANGE	22451.352	21613.475	44064.825
PLACER	3094.234	2616.341	5710.575
PLUMAS	279.212	311.464	590.674
RIVERSIDE	17564.469	10885.722	28450.191
SACRAMENTO	9024.955	10468.926	19493.881
SAN BENITO	558.964	311.175	870.137
SAN BERNARDINO	20425.287	12231.765	32657.050
SAN DIEGO	26721.154	20096.732	46817.888
SAN FRANCISCO	2124.139	3903.773	6027.912
SAN JOAQUIN	6607.670	4078.091	10685.761
SAN LUIS OBISPO	3089.659	1677.051	4766.710
SAN MATEO	8040.474	4087.428	12127.902
SANTA BARBARA	3870.823	2240.089	6110.913
SANTA CLARA	13225.959	13359.412	26585.373
SANTA CRUZ	1724.225	1712.252	3436.477
SHASTA	1933.591	1471.644	3405.235
SIERRA	102.224	74.878	177.102
SISKIYOU	978.779	495.910	1474.690
SOLANO	5452.285	2446.827	7899.113
SONOMA	3494.513	3079.679	6574.193
STANISLAUS	2821.027	3516.227	6337.254
SUTTER	765.119	589.149	1354.268
TEHAMA	1028.997	468.353	1497.350
TRINITY	187.625	106.362	293.987
TULARE	2874.155	2758.153	5632.307
TUOLUMNE	558.724	453.793	1012.516
VENTURA	6193.623	5192.342	11385.966
YOLO	2247.663	1166.259	3413.922
YUBA	537.835	547.962	1085.797
<b>TOTAL</b>	<b>295700.938</b>	<b>247879.203</b>	<b>543580.128</b>

**2010 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	10100.521	6598.804	16699.326
ALPINE	55.954	14.710	70.664
AMADOR	338.673	124.873	463.546
BUTTE	783.068	1274.867	2057.935
CALAVERAS	341.053	181.528	522.582
COLUSA	561.261	143.224	704.485
CONTRA COSTA	5566.649	4734.765	10301.414
DEL NORTE	146.783	101.881	248.664
EL DORADO	1019.751	933.022	1952.773
FRESNO	3840.236	5227.542	9067.777
GLENN	402.301	169.049	571.350
HUMBOLDT	787.961	571.691	1359.652
IMPERIAL	1454.072	734.537	2188.610
INYO	436.738	122.905	559.643
KERN	7039.022	3619.500	10658.521
KINGS	926.284	632.894	1559.178
LAKE	378.804	226.502	605.305
LASSEN	324.812	331.225	656.037
LOS ANGELES	43091.297	47488.637	90579.938
MADERA	1227.346	540.029	1767.374
MARIN	1670.122	1404.411	3074.533
MARIPOSA	147.176	163.377	310.553
MENDOCINO	784.935	533.221	1318.156
MERCED	2188.830	963.537	3152.367
MODOC	86.891	112.481	199.372
MONO	281.726	63.510	345.236
MONTEREY	2588.143	1880.387	4468.530
NAPA	824.524	559.231	1383.755
NEVADA	779.419	502.476	1281.895
ORANGE	15389.792	14881.963	30271.756
PLACER	2303.822	1956.752	4260.574
PLUMAS	183.091	205.158	388.249
RIVERSIDE	12947.824	8060.546	21008.371
SACRAMENTO	6592.902	7682.084	14274.986
SAN BENITO	397.873	222.489	620.362
SAN BERNARDINO	14504.058	8724.808	23228.865
SAN DIEGO	18634.068	14077.425	32711.494
SAN FRANCISCO	1406.190	2595.917	4002.107
SAN JOAQUIN	4946.747	3066.715	8013.462
SAN LUIS OBISPO	2138.001	1165.706	3303.707
SAN MATEO	5443.528	2779.677	8223.206
SANTA BARBARA	2617.140	1521.369	4138.509
SANTA CLARA	9103.688	9236.828	18340.516
SANTA CRUZ	1166.368	1163.468	2329.835
SHASTA	1373.852	1050.323	2424.175
SIERRA	69.217	50.928	120.145
SISKIYOU	647.474	329.523	976.998
SOLANO	3941.283	1776.674	5717.957
SONOMA	2491.810	2205.866	4697.677
STANISLAUS	2014.068	2521.675	4535.743
SUTTER	543.920	420.703	964.622
TEHAMA	710.037	324.627	1034.663
TRINITY	123.324	70.224	193.548
TULARE	2084.348	2009.203	4093.551
TUOLUMNE	381.795	311.483	693.278
VENTURA	4250.998	3579.768	7830.767
YOLO	1646.192	858.004	2504.196
YUBA	385.248	394.265	779.514
<b>TOTAL</b>	<b>206613.016</b>	<b>173198.969</b>	<b>379812.063</b>

**2010 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	16255.213	10619.746	26874.960
ALPINE	90.049	23.673	113.723
AMADOR	545.041	200.964	746.005
BUTTE	1260.226	2051.699	3311.925
CALAVERAS	548.872	292.141	841.014
COLUSA	903.262	230.497	1133.759
CONTRA COSTA	8958.653	7619.866	16578.519
DEL NORTE	236.224	163.962	400.186
EL DORADO	1641.130	1501.553	3142.684
FRESNO	6180.261	8412.913	14593.173
GLENN	647.441	272.058	919.499
HUMBOLDT	1268.100	920.047	2188.148
IMPERIAL	2340.102	1182.123	3522.226
INYO	702.862	197.796	900.658
KERN	11328.208	5825.021	17153.227
KINGS	1490.710	1018.544	2509.254
LAKE	609.626	364.520	974.144
LASSEN	522.734	533.055	1055.789
LOS ANGELES	69348.719	76425.555	145774.280
MADERA	1975.222	869.092	2844.313
MARIN	2687.801	2260.180	4947.981
MARIPOSA	236.857	262.930	499.787
MENDOCINO	1263.230	858.136	2121.366
MERCED	3522.580	1550.662	5073.243
MODOC	139.838	181.021	320.858
MONO	453.394	102.209	555.603
MONTEREY	4165.212	3026.189	7191.402
NAPA	1326.943	899.995	2226.938
NEVADA	1254.353	808.657	2063.010
ORANGE	24767.469	23950.197	48717.669
PLACER	3707.642	3149.087	6856.729
PLUMAS	294.656	330.170	624.826
RIVERSIDE	20837.504	12972.191	33809.696
SACRAMENTO	10610.247	12363.116	22973.363
SAN BENITO	640.315	358.061	998.376
SAN BERNARDINO	23342.020	14041.218	37383.235
SAN DIEGO	29988.625	22655.420	52644.047
SAN FRANCISCO	2263.043	4177.724	6440.767
SAN JOAQUIN	7961.018	4935.399	12896.417
SAN LUIS OBISPO	3440.779	1876.022	5316.801
SAN MATEO	8760.509	4473.457	13233.967
SANTA BARBARA	4211.878	2448.406	6660.285
SANTA CLARA	14650.966	14865.233	29516.199
SANTA CRUZ	1877.087	1872.420	3749.506
SHASTA	2211.000	1690.331	3901.332
SIERRA	111.394	81.961	193.355
SISKIYOU	1042.008	530.316	1572.326
SOLANO	6342.880	2859.280	9202.160
SONOMA	4010.179	3549.997	7560.178
STANISLAUS	3241.328	4058.242	7299.571
SUTTER	875.354	677.056	1552.409
TEHAMA	1142.694	522.437	1665.129
TRINITY	198.471	113.015	311.485
TULARE	3354.433	3233.499	6587.932
TUOLUMNE	614.440	501.283	1115.723
VENTURA	6841.318	5761.078	12602.398
YOLO	2649.289	1380.824	4030.113
YUBA	619.997	634.508	1254.506
<b>TOTAL</b>	<b>332511.406</b>	<b>278736.719</b>	<b>611248.267</b>

**2015 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	11179.273	7336.711	18515.984
ALPINE	60.181	15.893	76.074
AMADOR	366.012	135.566	501.578
BUTTE	860.673	1407.570	2268.243
CALAVERAS	389.766	208.397	598.164
COLUSA	629.759	161.433	791.192
CONTRA COSTA	6299.809	5382.677	11682.486
DEL NORTE	157.538	109.842	267.380
EL DORADO	1147.033	1054.242	2201.275
FRESNO	4335.275	5928.198	10263.473
GLENN	437.893	184.840	622.733
HUMBOLDT	838.231	610.924	1449.155
IMPERIAL	1669.184	847.029	2516.213
INYO	455.081	128.648	583.730
KERN	7982.399	4123.215	12105.614
KINGS	1057.703	725.968	1783.671
LAKE	423.475	254.361	677.836
LASSEN	346.454	354.898	701.353
LOS ANGELES	45977.051	50898.805	96875.852
MADERA	1406.023	621.453	2027.476
MARIN	1743.333	1472.628	3215.961
MARIPOSA	160.464	178.936	339.400
MENDOCINO	847.276	578.182	1425.458
MERCED	2575.957	1139.099	3715.055
MODOC	89.760	116.721	206.481
MONO	309.254	70.032	379.286
MONTEREY	2851.484	2081.115	4932.599
NAPA	923.466	629.180	1552.647
NEVADA	869.641	563.184	1432.825
ORANGE	16690.180	16212.681	32902.859
PLACER	2713.831	2315.453	5029.284
PLUMAS	189.951	213.810	403.760
RIVERSIDE	15100.684	9443.448	24544.131
SACRAMENTO	7619.845	8918.976	16538.820
SAN BENITO	448.067	251.695	699.762
SAN BERNARDINO	16294.793	9846.491	26141.285
SAN DIEGO	20558.814	15601.989	36160.805
SAN FRANCISCO	1472.797	2731.217	4204.014
SAN JOAQUIN	5859.073	3648.792	9507.864
SAN LUIS OBISPO	2340.687	1282.008	3622.695
SAN MATEO	5830.654	2990.870	8821.524
SANTA BARBARA	2799.553	1634.792	4434.345
SANTA CLARA	9913.922	10104.559	20018.480
SANTA CRUZ	1248.288	1250.835	2499.124
SHASTA	1544.376	1186.049	2730.425
SIERRA	74.149	54.805	128.954
SISKIYOU	677.639	346.440	1024.079
SOLANO	4507.488	2041.132	6548.620
SONOMA	2811.132	2499.838	5310.970
STANISLAUS	2274.987	2861.279	5136.266
SUTTER	611.756	475.319	1087.075
TEHAMA	775.149	356.004	1131.153
TRINITY	128.245	73.358	201.603
TULARE	2391.489	2315.732	4707.221
TUOLUMNE	412.762	338.276	751.039
VENTURA	4616.098	3904.860	8520.958
YOLO	1907.512	998.718	2906.230
YUBA	436.587	448.833	885.420
<b>TOTAL</b>	<b>228639.938</b>	<b>191668.016</b>	<b>420307.938</b>

**2015 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	17991.297	11807.292	29798.588
ALPINE	96.852	25.577	122.429
AMADOR	589.039	218.172	807.212
BUTTE	1385.119	2265.264	3650.383
CALAVERAS	627.268	335.382	962.652
COLUSA	1013.499	259.801	1273.300
CONTRA COSTA	10138.560	8662.579	18801.139
DEL NORTE	253.533	176.774	430.306
EL DORADO	1845.971	1696.638	3542.609
FRESNO	6976.949	9540.510	16517.459
GLENN	704.720	297.471	1002.192
HUMBOLDT	1349.002	983.187	2332.189
IMPERIAL	2686.291	1363.161	4049.452
INYO	732.382	207.039	939.422
KERN	12846.426	6635.671	19482.097
KINGS	1702.208	1168.332	2870.540
LAKE	681.517	409.354	1090.871
LASSEN	557.564	571.153	1128.718
LOS ANGELES	73992.891	81913.688	155906.572
MADERA	2262.775	1000.132	3262.906
MARIN	2805.623	2369.965	5175.588
MARIPOSA	258.242	287.970	546.211
MENDOCINO	1363.559	930.494	2294.052
MERCED	4145.601	1833.202	5978.801
MODOC	144.455	187.844	332.299
MONO	497.696	112.706	610.402
MONTEREY	4589.019	3349.230	7938.249
NAPA	1486.174	1012.567	2498.743
NEVADA	1399.552	906.357	2305.908
ORANGE	26860.240	26091.781	52952.019
PLACER	4367.488	3726.360	8093.848
PLUMAS	305.697	344.094	649.789
RIVERSIDE	24302.195	15197.757	39499.950
SACRAMENTO	12262.952	14353.700	26616.651
SAN BENITO	721.094	405.064	1126.158
SAN BERNARDINO	26223.928	15846.392	42070.320
SAN DIEGO	33086.203	25108.967	58195.175
SAN FRANCISCO	2370.237	4395.468	6765.705
SAN JOAQUIN	9429.264	5872.162	15301.424
SAN LUIS OBISPO	3766.971	2063.192	5830.162
SAN MATEO	9383.528	4813.339	14196.867
SANTA BARBARA	4505.444	2630.943	7136.387
SANTA CLARA	15954.911	16261.712	32216.621
SANTA CRUZ	2008.925	2013.024	4021.950
SHASTA	2485.432	1908.761	4394.193
SIERRA	119.331	88.200	207.531
SISKIYOU	1090.554	557.541	1648.095
SOLANO	7254.099	3284.884	10538.982
SONOMA	4524.079	4023.099	8547.178
STANISLAUS	3661.237	4604.782	8266.019
SUTTER	984.526	764.952	1749.478
TEHAMA	1247.481	572.933	1820.414
TRINITY	206.390	118.058	324.449
TULARE	3848.729	3726.809	7575.538
TUOLUMNE	664.276	544.402	1208.680
VENTURA	7428.890	6284.263	13713.153
YOLO	3069.843	1607.281	4677.124
YUBA	702.619	722.327	1424.945
<b>TOTAL</b>	<b>367960.313</b>	<b>308459.781</b>	<b>676420.061</b>

2020 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	12164.570	8019.363	20183.934
ALPINE	63.635	16.881	80.516
AMADOR	388.888	144.689	533.576
BUTTE	930.015	1527.838	2457.854
CALAVERAS	437.925	235.203	673.128
COLUSA	694.699	178.883	873.582
CONTRA COSTA	7009.294	6015.898	13025.192
DEL NORTE	166.229	116.425	282.654
EL DORADO	1268.443	1171.091	2439.535
FRESNO	4811.592	6609.219	11420.812
GLENN	468.596	198.693	667.289
HUMBOLDT	876.671	641.822	1518.493
IMPERIAL	1883.803	960.252	2844.055
INYO	466.198	132.386	598.584
KERN	8899.547	4617.700	13517.247
KINGS	1187.400	818.664	2006.065
LAKE	465.430	280.823	746.253
LASSEN	363.307	373.841	737.148
LOS ANGELES	48228.742	53632.461	101861.203
MADERA	1583.548	703.077	2286.625
MARIN	1789.065	1518.078	3307.142
MARIPOSA	172.001	192.667	364.667
MENDOCINO	899.145	616.346	1515.491
MERCED	2980.427	1323.904	4304.331
MODOC	91.159	119.076	210.234
MONO	333.747	75.920	409.667
MONTEREY	3088.637	2264.370	5353.008
NAPA	1016.839	695.924	1712.763
NEVADA	953.943	620.566	1574.509
ORANGE	17795.191	17364.078	35159.270
PLACER	3142.896	2693.633	5836.529
PLUMAS	193.743	219.063	412.807
RIVERSIDE	17314.492	10876.747	28191.240
SACRAMENTO	8658.229	10180.126	18838.355
SAN BENITO	496.084	279.925	776.009
SAN BERNARDINO	17997.887	10924.699	28922.586
SAN DIEGO	22299.844	16999.611	39299.457
SAN FRANCISCO	1516.545	2825.035	4341.580
SAN JOAQUIN	6822.625	4268.025	11090.649
SAN LUIS OBISPO	2519.371	1386.101	3905.472
SAN MATEO	6139.987	3163.756	9303.743
SANTA BARBARA	2944.176	1727.002	4671.178
SANTA CLARA	10614.193	10867.111	21481.305
SANTA CRUZ	1313.432	1322.051	2635.483
SHASTA	1706.787	1316.692	3023.480
SIERRA	78.093	57.981	136.074
SISKIYOU	697.248	358.074	1055.321
SOLANO	5068.097	2305.349	7373.446
SONOMA	3117.891	2785.138	5903.029
STANISLAUS	2526.371	3191.785	5718.156
SUTTER	676.449	527.955	1204.404
TEHAMA	831.961	383.821	1215.782
TRINITY	131.114	75.337	206.451
TULARE	2697.615	2623.948	5321.562
TUOLUMNE	438.716	361.169	799.886
VENTURA	4928.021	4187.533	9115.554
YOLO	2173.040	1142.874	3315.914
YUBA	486.423	502.324	988.746
<b>TOTAL</b>	<b>249010.016</b>	<b>208739.000</b>	<b>457749.000</b>

**2020 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	19576.979	12905.914	32482.893
ALPINE	102.411	27.167	129.578
AMADOR	625.855	232.854	858.707
BUTTE	1496.714	2458.817	3955.533
CALAVERAS	704.772	378.523	1083.295
COLUSA	1118.010	287.884	1405.894
CONTRA COSTA	11280.365	9681.649	20962.015
DEL NORTE	267.520	187.368	454.888
EL DORADO	2041.361	1884.688	3926.051
FRESNO	7743.507	10636.507	18380.015
GLENN	754.132	319.765	1073.898
HUMBOLDT	1410.865	1032.912	2443.778
IMPERIAL	3031.687	1545.376	4577.063
INYO	750.273	213.055	963.328
KERN	14322.433	7431.468	21753.900
KINGS	1910.935	1317.512	3228.449
LAKE	749.037	451.941	1200.978
LASSEN	584.686	601.639	1186.325
LOS ANGELES	77616.641	86313.078	163929.716
MADERA	2548.473	1131.493	3679.966
MARIN	2879.221	2443.110	5322.329
MARIPOSA	276.809	310.067	586.875
MENDOCINO	1447.034	991.913	2438.946
MERCED	4796.532	2130.617	6927.149
MODOC	146.706	191.634	338.339
MONO	537.114	122.181	659.295
MONTEREY	4970.679	3644.150	8614.831
NAPA	1636.444	1119.981	2756.425
NEVADA	1535.222	998.704	2533.927
ORANGE	28638.584	27944.775	56583.360
PLACER	5058.001	4334.982	9392.983
PLUMAS	311.799	352.548	664.348
RIVERSIDE	27864.975	17504.428	45369.403
SACRAMENTO	13934.069	16383.325	30317.394
SAN BENITO	798.370	450.496	1248.865
SAN BERNARDINO	28964.791	17581.600	46546.390
SAN DIEGO	35888.121	27358.223	63246.346
SAN FRANCISCO	2440.643	4546.453	6987.096
SAN JOAQUIN	10979.950	6868.720	17848.669
SAN LUIS OBISPO	4054.535	2230.713	6285.248
SAN MATEO	9881.352	5091.572	14972.923
SANTA BARBARA	4738.192	2779.340	7517.532
SANTA CLARA	17081.889	17488.920	34570.809
SANTA CRUZ	2113.764	2127.635	4241.399
SHASTA	2746.807	2119.010	4865.819
SIERRA	125.679	93.311	218.990
SISKIYOU	1122.112	576.264	1698.375
SOLANO	8156.312	3710.100	11866.411
SONOMA	5017.759	4482.245	9500.004
STANISLAUS	4065.800	5136.680	9202.480
SUTTER	1088.639	849.661	1938.300
TEHAMA	1338.911	617.700	1956.611
TRINITY	211.008	121.243	332.251
TULARE	4341.391	4222.835	8564.224
TUOLUMNE	706.045	581.245	1287.292
VENTURA	7930.881	6739.181	14670.062
YOLO	3497.169	1839.277	5336.446
YUBA	782.822	808.412	1591.232
<b>TOTAL</b>	<b>400742.781</b>	<b>335932.844</b>	<b>736675.609</b>

**2025 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	12975.006	8592.567	21567.574
ALPINE	65.958	17.577	83.534
AMADOR	405.023	151.378	556.402
BUTTE	985.076	1625.659	2610.736
CALAVERAS	482.306	260.218	742.524
COLUSA	751.185	194.309	945.494
CONTRA COSTA	7644.496	6590.939	14235.435
DEL NORTE	171.932	120.968	292.900
EL DORADO	1374.972	1275.222	2650.195
FRESNO	5234.662	7223.078	12457.739
GLENN	491.537	209.369	700.906
HUMBOLDT	898.745	660.978	1559.724
IMPERIAL	2083.985	1067.128	3151.113
INYO	468.145	133.544	601.688
KERN	9725.905	5069.441	14795.347
KINGS	1306.646	904.980	2211.626
LAKE	501.428	303.920	805.348
LASSEN	373.447	386.024	759.470
LOS ANGELES	49590.500	55397.805	104988.305
MADERA	1748.227	779.725	2527.952
MARIN	1799.697	1534.050	3333.747
MARIPOSA	180.722	203.357	384.079
MENDOCINO	935.323	644.064	1579.387
MERCED	3380.228	1508.330	4888.558
MODOC	90.750	119.081	209.830
MONO	353.059	80.679	433.738
MONTEREY	3279.372	2415.146	5694.518
NAPA	1097.516	754.558	1852.074
NEVADA	1025.728	670.302	1696.030
ORANGE	18598.244	18230.279	36828.523
PLACER	3567.836	3071.748	6639.584
PLUMAS	193.705	220.017	413.722
RIVERSIDE	19460.348	12280.390	31740.738
SACRAMENTO	9643.610	11390.323	21033.934
SAN BENITO	538.387	305.178	843.565
SAN BERNARDINO	19485.963	11881.797	31367.760
SAN DIEGO	23710.092	18156.943	41867.035
SAN FRANCISCO	1530.718	2864.416	4395.134
SAN JOAQUIN	7787.567	4893.837	12681.404
SAN LUIS OBISPO	2658.083	1469.074	4127.157
SAN MATEO	6337.899	3280.599	9618.498
SANTA BARBARA	3035.054	1788.413	4823.467
SANTA CLARA	11139.255	11456.596	22595.850
SANTA CRUZ	1354.653	1369.749	2724.402
SHASTA	1848.986	1432.883	3281.869
SIERRA	80.622	60.130	140.751
SISKIYOU	703.241	362.795	1066.036
SOLANO	5585.769	2552.390	8138.159
SONOMA	3389.754	3041.770	6431.524
STANISLAUS	2750.065	3490.211	6240.276
SUTTER	733.195	574.849	1308.044
TEHAMA	875.283	405.645	1280.928
TRINITY	131.396	75.843	207.239
TULARE	2982.765	2914.517	5897.283
TUOLUMNE	457.083	378.002	835.086
VENTURA	5157.007	4402.058	9559.064
YOLO	2426.587	1282.032	3708.619
YUBA	531.233	551.095	1082.328
<b>TOTAL</b>	<b>266115.938</b>	<b>223077.969</b>	<b>489193.969</b>

**2025 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	20881.248	13828.396	34709.646
ALPINE	106.149	28.287	134.435
AMADOR	651.821	243.619	895.442
BUTTE	1585.326	2616.245	4201.572
CALAVERAS	776.196	418.780	1194.977
COLUSA	1208.915	312.710	1521.625
CONTRA COSTA	12302.624	10607.088	22909.712
DEL NORTE	276.698	194.679	471.377
EL DORADO	2212.803	2052.271	4265.075
FRESNO	8424.372	11624.417	20048.788
GLENN	791.052	336.947	1127.999
HUMBOLDT	1446.390	1063.741	2510.132
IMPERIAL	3353.849	1717.376	5071.225
INYO	753.406	214.918	968.323
KERN	15652.327	8158.475	23810.803
KINGS	2102.843	1456.424	3559.267
LAKE	806.970	489.112	1296.082
LASSEN	601.005	621.245	1222.248
LOS ANGELES	79808.172	89154.125	168962.299
MADERA	2813.499	1254.846	4068.344
MARIN	2896.332	2468.814	5365.146
MARIPOSA	290.844	327.271	618.115
MENDOCINO	1505.256	1036.521	2541.777
MERCED	5439.950	2427.422	7867.372
MODOC	146.048	191.642	337.689
MONO	568.193	129.840	698.034
MONTEREY	5277.638	3886.801	9164.438
NAPA	1766.281	1214.343	2980.624
NEVADA	1650.749	1078.746	2729.496
ORANGE	29930.973	29338.791	59269.763
PLACER	5741.875	4943.499	10685.375
PLUMAS	311.738	354.083	665.821
RIVERSIDE	31318.395	19763.371	51081.766
SACRAMENTO	15519.886	18330.947	33850.836
SAN BENITO	866.450	491.136	1357.586
SAN BERNARDINO	31359.617	19121.898	50481.517
SAN DIEGO	38157.695	29220.768	67378.462
SAN FRANCISCO	2463.452	4609.831	7073.283
SAN JOAQUIN	12532.874	7875.867	20408.742
SAN LUIS OBISPO	4277.770	2364.245	6642.015
SAN MATEO	10199.859	5279.612	15479.472
SANTA BARBARA	4884.446	2878.172	7762.618
SANTA CLARA	17926.893	18437.604	36364.496
SANTA CRUZ	2180.103	2204.397	4384.500
SHASTA	2975.655	2306.002	5281.656
SIERRA	129.749	96.770	226.517
SISKIYOU	1131.757	583.862	1715.619
SOLANO	8989.424	4107.673	13097.097
SONOMA	5455.280	4895.254	10350.535
STANISLAUS	4425.801	5616.950	10042.751
SUTTER	1179.963	925.130	2105.093
TEHAMA	1408.631	652.822	2061.454
TRINITY	211.461	122.057	333.519
TULARE	4800.295	4690.460	9490.757
TUOLUMNE	735.604	608.335	1343.941
VENTURA	8299.398	7084.426	15383.822
YOLO	3905.213	2063.230	5968.444
YUBA	854.937	886.901	1741.838
<b>TOTAL</b>	<b>428272.094</b>	<b>359009.188</b>	<b>787281.382</b>

## APPENDIX C

### CALIFORNIA VEHICLE FUEL CONSUMPTION BY COUNTY AND FUEL TYPE

**1995 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	567.313	78.239	645.552
ALPINE	2.162	0.289	2.450
AMADOR	15.290	2.414	17.705
BUTTE	71.271	10.898	82.169
CALAVERAS	16.377	2.018	18.395
COLUSA	21.142	10.991	32.133
CONTRA COSTA	327.205	37.697	364.902
DEL NORTE	9.941	1.900	11.842
EL DORADO	66.902	7.834	74.736
FRESNO	273.532	59.844	333.376
GLENN	18.324	9.597	27.921
HUMBOLDT	52.842	9.525	62.367
IMPERIAL	63.581	19.557	83.137
INYO	21.197	4.293	25.490
KERN	269.325	101.270	370.595
KINGS	42.782	12.264	55.046
LAKE	20.964	2.679	23.643
LASSEN	25.602	6.000	31.602
LOS ANGELES	3507.030	472.980	3980.011
MADERA	51.944	16.529	68.472
MARIN	121.026	11.322	132.348
MARISPOSA	11.018	0.909	11.927
MENDOCINO	48.815	7.713	56.529
MERCED	94.719	34.059	128.778
MODOC	7.328	2.035	9.363
MONO	12.752	2.482	15.235
MONTEREY	151.091	27.608	178.698
NAPA	42.532	5.748	48.279
NEVADA	44.368	7.598	51.966
ORANGE	1061.933	133.375	1195.308
PLACER	114.180	19.018	133.198
PLUMAS	13.130	2.888	16.018
RIVERSIDE	557.851	139.249	697.100
SACRAMENTO	428.933	66.411	495.344
SAN BENITO	18.717	4.873	23.591
SAN BERNARDINO	714.652	177.707	892.359
SAN DIEGO	1070.276	124.792	1195.068
SAN FRANCISCO	172.838	14.092	186.930
SAN JOAQUIN	222.537	67.002	289.539
SAN LUIS OBISPO	105.364	18.408	123.772
SAN MATEO	305.807	26.189	331.996
SANTA BARBARA	145.217	22.769	167.985
SANTA CLARA	658.540	67.197	725.737
SANTA CRUZ	83.801	8.286	92.088
SHASTA	75.620	21.871	97.491
SIERRA	4.038	1.269	5.308
SISKIYOU	34.361	18.660	53.021
SOLANO	172.492	28.194	200.686
SONOMA	153.252	19.926	173.178
STANISLAUS	154.715	34.255	188.969
SUTTER	31.307	6.032	37.339
TEHAMA	33.137	13.046	46.183
TRINITY	6.602	2.383	8.985
TULARE	125.786	39.598	165.384
TUOLUMNE	22.443	2.841	25.284
VENTURA	270.426	35.839	306.265
YOLO	76.526	19.521	96.046
YUBA	25.401	3.527	28.929
<b>TOTAL</b>	<b>12838.255</b>	<b>2105.512</b>	<b>14943.767</b>
VFC in Million Gallons			

**2000 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	653.376	99.330	752.706
ALPINE	2.650	0.408	3.059
AMADOR	17.115	2.774	19.889
BUTTE	93.391	12.767	106.159
CALAVERAS	18.011	2.522	20.532
COLUSA	23.092	12.050	35.142
CONTRA COSTA	370.883	53.103	423.986
DEL NORTE	11.149	2.315	13.464
EL DORADO	75.557	10.273	85.830
FRESNO	312.772	82.791	395.564
GLENN	19.630	8.607	28.237
HUMBOLDT	55.975	11.817	67.792
IMPERIAL	74.419	25.761	100.180
INYO	24.033	5.132	29.165
KERN	311.269	152.750	464.019
KINGS	50.008	18.711	68.718
LAKE	22.908	3.768	26.676
LASSEN	26.499	7.467	33.966
LOS ANGELES	3687.244	539.173	4226.416
MADERA	59.295	24.142	83.437
MARIN	130.150	14.896	145.046
MARIPOSA	12.286	1.104	13.390
MENDOCINO	52.947	8.813	61.759
MERCED	99.248	41.765	141.012
MODOC	8.630	2.498	11.128
MONO	13.547	3.015	16.562
MONTEREY	165.433	35.240	200.673
NAPA	53.296	9.764	63.060
NEVADA	49.821	12.489	62.310
ORANGE	1206.531	156.766	1363.297
PLACER	134.639	26.590	161.229
PLUMAS	16.343	3.567	19.910
RIVERSIDE	646.122	172.030	818.152
SACRAMENTO	483.659	79.986	563.645
SAN BENITO	24.345	6.965	31.310
SAN BERNARDINO	783.827	228.658	1012.485
SAN DIEGO	1222.122	154.059	1376.181
SAN FRANCISCO	181.247	15.156	196.403
SAN JOAQUIN	247.292	88.785	336.077
SAN LUIS OBISPO	121.548	25.156	146.704
SAN MATEO	346.404	36.871	383.275
SANTA BARBARA	165.768	27.635	193.403
SANTA CLARA	721.112	86.635	807.748
SANTA CRUZ	95.487	10.465	105.953
SHASTA	86.176	28.616	114.792
SIERRA	5.008	1.714	6.722
SISKIYOU	38.758	21.333	60.091
SOLANO	197.171	40.874	238.045
SONOMA	170.175	28.941	199.116
STANISLAUS	155.259	40.195	195.454
SUTTER	34.613	5.723	40.336
TEHAMA	37.278	16.373	53.651
TRINITY	8.432	2.073	10.505
TULARE	139.093	49.922	189.015
TUOLUMNE	26.480	3.533	30.013
VENTURA	299.855	40.762	340.617
YOLO	84.187	23.197	107.384
YUBA	27.976	4.935	32.911
<b>TOTAL</b>	<b>14201.540</b>	<b>2632.760</b>	<b>16834.300</b>

VFC in Million Gallons

**2005 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	684.185	95.048	779.234
ALPINE	2.849	0.424	3.273
AMADOR	18.828	2.962	21.790
BUTTE	88.842	13.734	102.576
CALAVERAS	20.562	2.644	23.206
COLUSA	25.371	12.004	37.376
CONTRA COSTA	420.862	48.734	469.596
DEL NORTE	10.427	1.958	12.385
EL DORADO	80.200	11.031	91.231
FRESNO	369.525	93.838	463.363
GLENN	21.958	8.989	30.947
HUMBOLDT	57.407	11.928	69.336
IMPERIAL	82.036	26.137	108.173
INYO	22.980	5.092	28.073
KERN	390.621	190.778	581.399
KINGS	58.950	22.230	81.179
LAKE	24.156	4.627	28.783
LASSEN	27.799	7.349	35.148
LOS ANGELES	3956.090	569.334	4525.424
MADERA	64.855	25.710	90.565
MARIN	136.635	13.418	150.052
MARIPOSA	13.453	1.150	14.603
MENDOCINO	55.280	8.633	63.913
MERCED	112.704	44.211	156.915
MODOC	8.848	2.280	11.128
MONO	13.391	2.759	16.150
MONTEREY	182.229	37.665	219.893
NAPA	56.276	7.194	63.470
NEVADA	51.081	11.515	62.596
ORANGE	1294.084	174.805	1468.890
PLACER	164.465	31.371	195.836
PLUMAS	17.370	2.880	20.251
RIVERSIDE	793.052	207.916	1000.967
SACRAMENTO	575.328	91.654	666.982
SAN BENITO	23.959	7.012	30.971
SAN BERNARDINO	904.304	257.155	1161.459
SAN DIEGO	1360.006	166.514	1526.520
SAN FRANCISCO	185.570	14.494	200.063
SAN JOAQUIN	292.473	101.327	393.800
SAN LUIS OBISPO	133.834	26.316	160.150
SAN MATEO	347.196	32.501	379.697
SANTA BARBARA	173.470	28.118	201.588
SANTA CLARA	787.378	85.945	873.323
SANTA CRUZ	101.848	10.375	112.222
SHASTA	95.852	25.789	121.641
SIERRA	4.953	1.433	6.386
SISKIYOU	39.463	15.941	55.404
SOLANO	221.811	33.705	255.516
SONOMA	192.054	26.248	218.301
STANISLAUS	183.674	47.780	231.454
SUTTER	39.037	6.370	45.407
TEHAMA	40.178	14.678	54.856
TRINITY	8.264	1.665	9.929
TULARE	158.267	53.385	211.652
TUOLUMNE	29.534	3.635	33.169
VENTURA	332.289	42.746	375.035
YOLO	93.901	26.341	120.242
YUBA	31.423	6.787	38.210
<b>TOTAL</b>	<b>15683.438</b>	<b>2828.260</b>	<b>18511.698</b>

VFC in Million Gallons

**2010 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	759.498	105.590	865.087
ALPINE	3.071	0.458	3.528
AMADOR	20.398	3.216	23.614
BUTTE	98.035	15.224	113.258
CALAVERAS	23.562	3.026	26.588
COLUSA	28.573	13.699	42.272
CONTRA COSTA	477.787	55.146	532.933
DEL NORTE	11.228	2.121	13.349
EL DORADO	90.507	12.471	102.978
FRESNO	418.949	107.498	526.448
GLENN	23.992	9.950	33.941
HUMBOLDT	61.276	12.834	74.110
IMPERIAL	94.509	30.453	124.962
INYO	24.006	5.360	29.366
KERN	444.920	220.343	665.263
KINGS	67.590	25.833	93.423
LAKE	27.088	5.224	32.312
LASSEN	29.770	7.957	37.727
LOS ANGELES	4235.939	611.141	4847.080
MADERA	74.575	29.964	104.539
MARIN	143.059	13.937	156.996
MARIPOSA	14.716	1.241	15.957
MENDOCINO	59.854	9.376	69.230
MERCED	133.138	52.899	186.038
MODOC	9.179	2.390	11.569
MONO	14.733	3.055	17.788
MONTEREY	201.455	41.938	243.393
NAPA	63.215	8.071	71.287
NEVADA	57.186	12.997	70.183
ORANGE	1408.136	190.413	1598.550
PLACER	194.414	37.312	231.726
PLUMAS	18.087	3.013	21.100
RIVERSIDE	928.149	245.794	1173.944
SACRAMENTO	667.386	106.768	774.153
SAN BENITO	27.075	8.018	35.093
SAN BERNARDINO	1019.587	293.045	1312.632
SAN DIEGO	1505.052	183.877	1688.929
SAN FRANCISCO	195.093	15.010	210.103
SAN JOAQUIN	347.760	122.002	469.761
SAN LUIS OBISPO	146.965	29.102	176.067
SAN MATEO	372.815	34.538	407.352
SANTA BARBARA	186.109	30.264	216.373
SANTA CLARA	860.285	93.473	953.758
SANTA CRUZ	109.356	11.061	120.418
SHASTA	108.154	29.401	137.555
SIERRA	5.326	1.557	6.883
SISKIYOU	41.468	16.961	58.430
SOLANO	254.346	38.722	293.068
SONOMA	217.373	29.743	247.116
STANISLAUS	208.341	54.803	263.144
SUTTER	44.049	7.212	51.261
TEHAMA	44.024	16.285	60.308
TRINITY	8.621	1.748	10.369
TULARE	182.369	62.314	244.683
TUOLUMNE	32.030	3.934	35.964
VENTURA	361.976	46.543	408.519
YOLO	109.178	30.946	140.124
YUBA	35.746	7.789	43.534
<b>TOTAL</b>	<b>17351.078</b>	<b>3175.057</b>	<b>20526.135</b>

VFC in Million Gallons

### 2015 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	832.991	115.842	948.832
ALPINE	3.270	0.487	3.757
AMADOR	21.834	3.444	25.278
BUTTE	106.881	16.648	123.529
CALAVERAS	26.676	3.423	30.099
COLUSA	31.786	15.318	47.104
CONTRA COSTA	535.918	61.762	597.680
DEL NORTE	11.944	2.262	14.207
EL DORADO	100.915	13.925	114.841
FRESNO	469.256	121.011	590.267
GLENN	25.895	10.797	36.691
HUMBOLDT	64.619	13.587	78.206
IMPERIAL	107.558	34.823	142.381
INYO	24.775	5.549	30.324
KERN	500.569	249.341	749.910
KINGS	76.556	29.441	105.997
LAKE	30.011	5.807	35.818
LASSEN	31.496	8.463	39.960
LOS ANGELES	4481.214	647.635	5128.849
MADERA	84.709	34.239	118.948
MARIN	147.994	14.361	162.355
MARIPOSA	15.906	1.330	17.236
MENDOCINO	64.029	10.043	74.073
MERCED	155.364	62.062	217.426
MODOC	9.408	2.461	11.869
MONO	16.014	3.329	19.343
MONTEREY	220.030	45.949	265.978
NAPA	70.159	8.952	79.111
NEVADA	63.249	14.426	77.675
ORANGE	1513.879	204.907	1718.786
PLACER	227.053	43.697	270.749
PLUMAS	18.608	3.106	21.714
RIVERSIDE	1073.145	285.474	1358.618
SACRAMENTO	764.885	122.657	887.542
SAN BENITO	30.227	9.002	39.229
SAN BERNARDINO	1135.668	327.930	1463.598
SAN DIEGO	1645.616	200.825	1846.441
SAN FRANCISCO	202.656	15.484	218.140
SAN JOAQUIN	408.481	144.111	552.592
SAN LUIS OBISPO	159.442	31.680	191.122
SAN MATEO	395.534	36.438	431.971
SANTA BARBARA	197.272	32.116	229.388
SANTA CLARA	928.696	100.701	1029.396
SANTA CRUZ	116.014	11.694	127.708
SHASTA	120.562	32.926	153.488
SIERRA	5.659	1.661	7.320
SISKIYOU	43.044	17.694	60.738
SOLANO	288.152	43.890	332.042
SONOMA	243.080	33.293	276.373
STANISLAUS	233.469	61.759	295.228
SUTTER	49.109	8.051	57.159
TEHAMA	47.652	17.720	65.372
TRINITY	8.885	1.806	10.691
TULARE	207.595	71.367	278.962
TUOLUMNE	34.320	4.211	38.531
VENTURA	389.591	50.092	439.684
YOLO	125.406	35.705	161.111
YUBA	40.173	8.792	48.966
<b>TOTAL</b>	<b>18984.902</b>	<b>3515.509</b>	<b>22500.411</b>

VFC in Million Gallons

## 2020 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	903.182	125.987	1029.169
ALPINE	3.442	0.514	3.956
AMADOR	23.103	3.655	26.757
BUTTE	115.189	18.037	133.226
CALAVERAS	29.860	3.840	33.699
COLUSA	34.906	16.912	51.819
CONTRA COSTA	594.328	68.650	662.978
DEL NORTE	12.559	2.388	14.948
EL DORADO	111.238	15.416	126.654
FRESNO	519.353	134.695	654.048
GLENN	27.598	11.571	39.169
HUMBOLDT	67.347	14.233	81.580
IMPERIAL	120.922	39.348	160.270
INYO	25.269	5.683	30.952
KERN	555.927	278.582	834.509
KINGS	85.634	33.144	118.778
LAKE	32.863	6.390	39.253
LASSEN	32.925	8.900	41.825
LOS ANGELES	4686.535	680.225	5366.759
MADERA	95.018	38.644	133.661
MARIN	151.380	14.706	166.085
MARIPOSA	17.000	1.419	18.419
MENDOCINO	67.710	10.658	78.369
MERCED	179.039	71.918	250.957
MODOC	9.527	2.507	12.034
MONO	17.203	3.590	20.793
MONTEREY	237.508	49.813	287.322
NAPA	76.982	9.847	86.829
NEVADA	69.133	15.838	84.971
ORANGE	1609.032	218.628	1827.660
PLACER	262.090	50.651	312.741
PLUMAS	18.923	3.172	22.095
RIVERSIDE	1226.000	327.809	1553.809
SACRAMENTO	866.558	139.587	1006.145
SAN BENITO	33.339	9.989	43.329
SAN BERNARDINO	1249.767	362.734	1612.501
SAN DIEGO	1778.924	217.599	1996.524
SAN FRANCISCO	208.166	15.906	224.072
SAN JOAQUIN	473.913	168.182	642.095
SAN LUIS OBISPO	170.964	34.131	205.095
SAN MATEO	414.936	38.214	453.151
SANTA BARBARA	206.700	33.759	240.460
SANTA CLARA	991.243	107.714	1098.958
SANTA CRUZ	121.693	12.281	133.974
SHASTA	132.786	36.454	169.240
SIERRA	5.939	1.752	7.691
SISKIYOU	44.121	18.231	62.351
SOLANO	322.714	49.292	372.005
SONOMA	268.732	36.946	305.678
STANISLAUS	258.509	68.814	327.324
SUTTER	54.120	8.901	63.021
TEHAMA	50.941	19.049	69.990
TRINITY	9.050	1.846	10.897
TULARE	233.417	80.758	314.175
TUOLUMNE	36.357	4.472	40.829
VENTURA	414.551	53.469	468.020
YOLO	142.318	40.721	183.039
YUBA	44.620	9.820	54.439
<b>TOTAL</b>	<b>20553.109</b>	<b>3857.993</b>	<b>24411.102</b>

VFC in Million Gallons

**2025 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY**

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	961.684	135.415	1097.099
ALPINE	3.558	0.536	4.094
AMADOR	24.004	3.830	27.835
BUTTE	121.906	19.307	141.213
CALAVERAS	32.823	4.258	37.081
COLUSA	37.608	18.413	56.021
CONTRA COSTA	647.302	75.460	722.763
DEL NORTE	12.967	2.490	15.457
EL DORADO	120.413	16.866	137.279
FRESNO	564.279	147.960	712.239
GLENN	28.862	12.230	41.092
HUMBOLDT	68.915	14.719	83.634
IMPERIAL	133.432	43.863	177.294
INYO	25.303	5.744	31.047
KERN	605.689	306.922	912.612
KINGS	94.002	36.802	130.804
LAKE	35.333	6.943	42.276
LASSEN	33.788	9.237	43.024
LOS ANGELES	4813.107	706.003	5519.110
MADERA	104.586	43.016	147.602
MARIN	152.079	14.902	166.980
MARIPOSA	17.845	1.500	19.344
MENDOCINO	70.312	11.175	81.486
MERCED	202.464	82.197	284.660
MODOC	9.472	2.519	11.991
MONO	18.145	3.822	21.967
MONTEREY	251.718	53.315	305.033
NAPA	82.953	10.707	93.660
NEVADA	74.186	17.165	91.351
ORANGE	1679.448	230.555	1910.003
PLACER	297.052	57.974	355.026
PLUMAS	18.896	3.200	22.096
RIVERSIDE	1374.955	371.464	1746.418
SACRAMENTO	964.043	156.930	1120.973
SAN BENITO	36.095	10.937	47.032
SAN BERNARDINO	1350.033	395.897	1745.929
SAN DIEGO	1888.559	233.111	2121.670
SAN FRANCISCO	210.021	16.189	226.210
SAN JOAQUIN	539.615	193.611	733.226
SAN LUIS OBISPO	179.993	36.307	216.300
SAN MATEO	427.522	39.670	467.192
SANTA BARBARA	212.672	35.055	247.727
SANTA CLARA	1039.080	113.966	1153.046
SANTA CRUZ	125.370	12.761	138.131
SHASTA	143.567	39.827	183.394
SIERRA	6.119	1.823	7.942
SISKIYOU	44.377	18.525	62.902
SOLANO	354.909	54.694	409.604
SONOMA	291.753	40.521	332.275
STANISLAUS	280.991	75.667	356.658
SUTTER	58.566	9.722	68.287
TEHAMA	53.444	20.198	73.641
TRINITY	9.051	1.864	10.915
TULARE	257.584	90.149	347.733
TUOLUMNE	37.825	4.696	42.521
VENTURA	433.195	56.419	489.614
YOLO	158.541	45.825	204.367
YUBA	48.657	10.826	59.483
<b>TOTAL</b>	<b>21870.664</b>	<b>4185.699</b>	<b>26056.363</b>

VFC in Million Gallons

## APPENDIX D

### CALIFORNIA TRUCK MILES OF TRAVEL BY COUNTY AND ROAD SYSTEM

**2000 ANNUAL STATEWIDE TMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	580.291	214.801	795.091
ALPINE	2.789	0.480	3.269
AMADOR	17.591	4.725	22.317
BUTTE	49.262	52.171	101.433
CALAVERAS	14.032	5.993	20.025
COLUSA	96.022	6.768	102.789
CONTRA COSTA	281.663	141.243	422.906
DEL NORTE	14.996	4.001	18.997
EL DORADO	45.642	35.841	81.483
FRESNO	474.678	215.784	690.462
GLENN	64.699	8.405	73.105
HUMBOLDT	70.031	27.138	97.169
IMPERIAL	186.535	30.496	217.031
INYO	36.731	5.418	42.149
KERN	1109.778	192.524	1302.302
KINGS	127.227	31.001	158.227
LAKE	21.109	9.283	30.393
LASSEN	43.865	18.596	62.461
LOS ANGELES	2591.534	1715.261	4306.795
MADERA	167.997	36.728	204.725
MARIN	74.150	41.441	115.591
MARIPOSA	5.147	3.106	8.253
MENDOCINO	51.317	19.823	71.140
MERCED	308.646	45.666	354.312
MODOC	13.563	7.373	20.936
MONO	21.764	3.061	24.826
MONTEREY	221.029	68.760	289.789
NAPA	58.877	20.557	79.434
NEVADA	85.365	18.283	103.648
ORANGE	731.272	505.308	1236.580
PLACER	171.673	45.731	217.405
PLUMAS	19.589	9.828	29.417
RIVERSIDE	1151.737	281.089	1432.825
SACRAMENTO	421.036	224.937	645.973
SAN BENITO	44.845	13.409	58.254
SAN BERNARDINO	1599.259	313.180	1912.438
SAN DIEGO	824.038	385.445	1209.483
SAN FRANCISCO	48.249	63.929	112.178
SAN JOAQUIN	602.655	146.985	749.640
SAN LUIS OBISPO	157.664	48.792	206.456
SAN MATEO	207.012	75.866	282.878
SANTA BARBARA	172.877	50.076	222.953
SANTA CLARA	410.624	266.197	676.821
SANTA CRUZ	49.388	31.375	80.763
SHASTA	195.352	45.471	240.823
SIERRA	11.752	2.692	14.444
SISKIYOU	162.339	19.998	182.338
SOLANO	277.978	57.209	335.187
SONOMA	151.286	83.033	234.319
STANISLAUS	220.281	114.659	334.940
SUTTER	33.145	13.030	46.175
TEHAMA	121.662	17.431	139.093
TRINITY	13.088	4.112	17.201
TULARE	306.069	115.872	421.941
TUOLUMNE	17.725	10.211	27.936
VENTURA	209.647	113.254	322.901
YOLO	162.114	31.348	193.462
YUBA	24.994	15.094	40.089
<b>TOTAL</b>	<b>15355.684</b>	<b>6090.287</b>	<b>21445.971</b>

**2005 ANNUAL STATEWIDE TMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	528.570	241.470	770.040
ALPINE	3.118	0.498	3.617
AMADOR	20.697	4.487	25.184
BUTTE	52.336	55.500	107.836
CALAVERAS	15.430	5.928	21.358
COLUSA	107.833	6.046	113.879
CONTRA COSTA	227.078	149.302	376.380
DEL NORTE	12.475	4.211	16.686
EL DORADO	47.517	38.975	86.492
FRESNO	547.448	260.063	807.512
GLENN	73.764	9.705	83.470
HUMBOLDT	72.140	29.579	101.718
IMPERIAL	204.267	33.890	238.157
INYO	39.671	5.740	45.410
KERN	1537.967	238.436	1776.403
KINGS	155.831	44.630	200.461
LAKE	27.847	11.319	39.167
LASSEN	44.058	19.576	63.634
LOS ANGELES	2526.340	1977.795	4504.135
MADERA	196.838	38.792	235.631
MARIN	56.479	43.079	99.558
MARIPOSA	5.473	2.950	8.423
MENDOCINO	50.552	20.844	71.397
MERCED	357.050	51.688	408.738
MODOC	13.584	6.108	19.692
MONO	21.709	2.806	24.516
MONTEREY	248.343	76.824	325.168
NAPA	38.826	18.601	57.427
NEVADA	79.754	21.062	100.816
ORANGE	781.747	591.449	1373.196
PLACER	195.032	71.688	266.720
PLUMAS	15.195	8.439	23.634
RIVERSIDE	1459.403	382.617	1842.020
SACRAMENTO	442.464	298.266	740.730
SAN BENITO	47.202	14.898	62.100
SAN BERNARDINO	1875.510	427.389	2302.899
SAN DIEGO	854.873	457.691	1312.563
SAN FRANCISCO	30.348	65.831	96.179
SAN JOAQUIN	736.378	179.303	915.681
SAN LUIS OBISPO	165.754	58.986	224.740
SAN MATEO	166.298	78.523	244.821
SANTA BARBARA	181.087	55.645	236.732
SANTA CLARA	357.908	291.130	649.039
SANTA CRUZ	44.794	32.933	77.728
SHASTA	177.023	51.000	228.023
SIERRA	10.745	2.157	12.902
SISKIYOU	132.302	15.945	148.247
SOLANO	221.716	61.072	282.788
SONOMA	122.460	85.057	207.517
STANISLAUS	265.061	143.980	409.042
SUTTER	39.485	13.873	53.358
TEHAMA	115.959	18.844	134.803
TRINITY	11.760	2.739	14.500
TULARE	344.460	128.701	473.160
TUOLUMNE	18.261	10.330	28.591
VENTURA	204.807	131.534	336.341
YOLO	197.573	39.234	236.807
YUBA	38.007	19.433	57.439
<b>TOTAL</b>	<b>16566.613</b>	<b>7158.592</b>	<b>23725.206</b>

**2010 ANNUAL STATEWIDE TMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	605.262	279.925	885.187
ALPINE	3.470	0.561	4.031
AMADOR	23.142	5.079	28.221
BUTTE	59.513	63.891	123.403
CALAVERAS	18.244	7.096	25.340
COLUSA	125.179	7.105	132.284
CONTRA COSTA	265.876	176.974	442.850
DEL NORTE	13.852	4.734	18.587
EL DORADO	55.297	45.918	101.214
FRESNO	639.401	307.501	946.902
GLENN	83.068	11.065	94.133
HUMBOLDT	79.397	32.957	112.354
IMPERIAL	242.598	40.747	283.345
INYO	42.767	6.264	49.031
KERN	1804.427	283.206	2087.632
KINGS	184.096	53.377	237.473
LAKE	32.208	13.254	45.462
LASSEN	48.619	21.870	70.489
LOS ANGELES	2788.781	2210.250	4999.030
MADERA	233.295	46.546	279.841
MARIN	60.995	47.098	108.093
MARIPOSA	6.174	3.369	9.542
MENDOCINO	56.455	23.566	80.021
MERCED	434.737	63.713	498.450
MODOC	14.518	6.609	21.127
MONO	24.655	3.226	27.882
MONTEREY	283.078	88.652	371.731
NAPA	44.990	21.821	66.810
NEVADA	92.065	24.614	116.678
ORANGE	877.133	671.821	1548.955
PLACER	237.690	88.448	326.138
PLUMAS	16.310	9.170	25.480
RIVERSIDE	1760.946	467.382	2228.328
SACRAMENTO	529.076	361.062	890.138
SAN BENITO	54.996	17.573	72.569
SAN BERNARDINO	2179.967	502.911	2682.877
SAN DIEGO	975.805	528.897	1504.702
SAN FRANCISCO	32.885	72.217	105.102
SAN JOAQUIN	902.363	222.436	1124.799
SAN LUIS OBISPO	187.745	67.639	255.384
SAN MATEO	184.287	88.093	272.380
SANTA BARBARA	200.411	62.344	262.755
SANTA CLARA	403.247	332.065	735.312
SANTA CRUZ	49.599	36.917	86.516
SHASTA	205.879	60.047	265.927
SIERRA	11.910	2.420	14.330
SISKIYOU	143.256	17.479	160.735
SOLANO	262.340	73.156	335.496
SONOMA	142.932	100.504	243.436
STANISLAUS	309.758	170.340	480.098
SUTTER	45.946	16.343	62.289
TEHAMA	130.972	21.547	152.519
TRINITY	12.653	2.983	15.636
TULARE	408.891	154.663	563.554
TUOLUMNE	20.425	11.697	32.123
VENTURA	230.091	149.600	379.690
YOLO	236.857	47.616	284.473
YUBA	44.562	23.066	67.627
<b>TOTAL</b>	<b>19165.092</b>	<b>8281.422</b>	<b>27446.514</b>

**2015 ANNUAL STATEWIDE TMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	673.620	315.393	989.014
ALPINE	3.753	0.615	4.367
AMADOR	25.148	5.588	30.736
BUTTE	65.773	71.485	137.259
CALAVERAS	20.965	8.256	29.221
COLUSA	141.235	8.116	149.351
CONTRA COSTA	302.563	203.884	506.446
DEL NORTE	14.950	5.172	20.122
EL DORADO	62.543	52.578	115.121
FRESNO	725.829	353.383	1079.212
GLENN	90.919	12.260	103.179
HUMBOLDT	84.931	35.690	120.621
IMPERIAL	280.033	47.616	327.649
INYO	44.810	6.645	51.455
KERN	2057.608	326.937	2384.544
KINGS	211.381	62.046	273.428
LAKE	36.206	15.083	51.289
LASSEN	52.146	23.747	75.893
LOS ANGELES	2992.046	2400.677	5392.723
MADERA	268.741	54.281	323.021
MARIN	64.022	50.047	114.069
MARIPOSA	6.768	3.739	10.507
MENDOCINO	61.277	25.895	87.172
MERCED	514.465	76.330	590.794
MODOC	15.081	6.949	22.030
MONO	27.214	3.605	30.820
MONTEREY	313.611	99.429	413.040
NAPA	50.668	24.879	75.547
NEVADA	103.292	27.957	131.248
ORANGE	956.525	741.691	1698.216
PLACER	281.545	106.062	387.607
PLUMAS	17.015	9.684	26.699
RIVERSIDE	2065.133	554.898	2620.031
SACRAMENTO	614.880	424.807	1039.687
SAN BENITO	62.278	20.145	82.423
SAN BERNARDINO	2462.699	575.163	3037.863
SAN DIEGO	1082.569	594.022	1676.590
SAN FRANCISCO	34.634	76.998	111.632
SAN JOAQUIN	1074.714	268.198	1342.911
SAN LUIS OBISPO	206.684	75.383	282.067
SAN MATEO	198.488	96.055	294.543
SANTA BARBARA	215.568	67.889	283.457
SANTA CLARA	441.572	368.123	809.695
SANTA CRUZ	53.377	40.220	93.597
SHASTA	232.717	68.714	301.431
SIERRA	12.829	2.639	15.468
SISKIYOU	150.762	18.622	169.384
SOLANO	301.692	85.170	386.862
SONOMA	162.143	115.423	277.566
STANISLAUS	351.827	195.867	547.694
SUTTER	51.963	18.712	70.674
TEHAMA	143.776	23.946	167.721
TRINITY	13.231	3.158	16.389
TULARE	471.745	180.645	652.390
TUOLUMNE	22.204	12.874	35.078
VENTURA	251.238	165.369	416.608
YOLO	275.979	56.167	332.146
YUBA	50.780	26.610	77.390
<b>TOTAL</b>	<b>21572.162</b>	<b>9321.533</b>	<b>30893.695</b>

2020 ANNUAL STATEWIDE TMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	736.214	348.959	1085.173
ALPINE	3.985	0.661	4.646
AMADOR	26.838	6.037	32.874
BUTTE	71.385	78.543	149.928
CALAVERAS	23.659	9.432	33.091
COLUSA	156.485	9.103	165.588
CONTRA COSTA	338.118	230.658	568.776
DEL NORTE	15.844	5.549	21.393
EL DORADO	69.468	59.120	128.588
FRESNO	809.118	398.801	1207.920
GLENN	97.721	13.340	111.061
HUMBOLDT	89.216	37.954	127.170
IMPERIAL	317.428	54.642	372.070
INYO	46.107	6.921	53.028
KERN	2304.107	370.627	2674.734
KINGS	238.345	70.825	309.170
LAKE	39.968	16.856	56.824
LASSEN	54.924	25.320	80.244
LOS ANGELES	3152.381	2560.573	5712.954
MADERA	304.003	62.162	366.165
MARIN	65.990	52.223	118.213
MARIPOSA	7.287	4.075	11.362
MENDOCINO	65.314	27.942	93.257
MERCED	597.862	89.799	687.661
MODOC	15.383	7.176	22.560
MONO	29.499	3.956	33.455
MONTEREY	341.187	109.509	450.696
NAPA	56.036	27.855	83.891
NEVADA	113.803	31.182	144.985
ORANGE	1024.339	804.087	1828.426
PLACER	327.492	124.896	452.388
PLUMAS	17.431	10.044	27.474
RIVERSIDE	2378.302	646.941	3025.243
SACRAMENTO	701.744	490.810	1192.554
SAN BENITO	69.255	22.679	91.934
SAN BERNARDINO	2732.057	645.955	3378.013
SAN DIEGO	1179.411	655.156	1834.566
SAN FRANCISCO	35.820	80.618	116.437
SAN JOAQUIN	1256.959	317.553	1574.512
SAN LUIS OBISPO	223.440	82.501	305.941
SAN MATEO	209.938	102.850	312.788
SANTA BARBARA	227.701	72.596	300.297
SANTA CLARA	474.842	400.749	875.591
SANTA CRUZ	56.410	43.030	99.440
SHASTA	258.321	77.217	335.538
SIERRA	13.571	2.826	16.397
SISKIYOU	155.807	19.483	175.290
SOLANO	340.706	97.372	438.078
SONOMA	180.628	130.169	310.797
STANISLAUS	392.422	221.166	613.588
SUTTER	57.711	21.038	78.749
TEHAMA	154.992	26.133	181.125
TRINITY	13.586	3.283	16.869
TULARE	534.472	207.193	741.665
TUOLUMNE	23.704	13.913	37.618
VENTURA	269.395	179.511	448.906
YOLO	315.778	65.061	380.839
YUBA	56.825	30.146	86.971
TOTAL	23870.732	10314.777	34185.510

**2025 ANNUAL STATEWIDE TMT DISTRIBUTION BY COUNTY (MILLIONS)**

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	791.462	379.768	1171.230
ALPINE	4.164	0.699	4.862
AMADOR	28.172	6.415	34.587
BUTTE	76.208	84.883	161.092
CALAVERAS	26.263	10.598	36.861
COLUSA	170.544	10.043	180.588
CONTRA COSTA	371.670	256.671	628.341
DEL NORTE	16.517	5.856	22.373
EL DORADO	75.896	65.387	141.284
FRESNO	887.212	442.680	1329.892
GLENN	103.315	14.278	117.592
HUMBOLDT	92.185	39.700	131.885
IMPERIAL	353.932	61.676	415.608
INYO	46.665	7.091	53.756
KERN	2537.934	413.268	2951.202
KINGS	264.352	79.521	343.873
LAKE	43.400	18.529	61.928
LASSEN	56.902	26.556	83.458
LOS ANGELES	3266.981	2686.353	5953.334
MADERA	338.267	70.020	408.288
MARIN	66.906	53.601	120.507
MARIPOSA	7.717	4.368	12.085
MENDOCINO	68.478	29.657	98.136
MERCED	683.414	103.914	787.328
MODOC	15.435	7.289	22.724
MONO	31.452	4.270	35.723
MONTEREY	365.117	118.633	483.750
NAPA	60.960	30.675	91.635
NEVADA	123.333	34.210	157.542
ORANGE	1079.017	857.444	1936.461
PLACER	374.706	144.662	519.369
PLUMAS	17.565	10.246	27.811
RIVERSIDE	2694.159	741.889	3436.048
SACRAMENTO	787.780	557.773	1345.553
SAN BENITO	75.754	25.113	100.867
SAN BERNARDINO	2981.299	713.569	3694.868
SAN DIEGO	1263.897	710.737	1974.635
SAN FRANCISCO	36.440	83.024	119.464
SAN JOAQUIN	1446.061	369.828	1815.890
SAN LUIS OBISPO	237.604	88.811	326.415
SAN MATEO	218.416	108.322	326.738
SANTA BARBARA	236.583	76.357	312.940
SANTA CLARA	502.265	429.117	931.382
SANTA CRUZ	58.640	45.282	103.922
SHASTA	282.053	85.349	367.402
SIERRA	14.121	2.977	17.098
SISKIYOU	158.387	20.050	178.437
SOLANO	378.472	109.498	487.970
SONOMA	197.928	144.394	342.322
STANISLAUS	430.541	245.639	676.180
SUTTER	63.046	23.266	86.312
TEHAMA	164.350	28.052	192.402
TRINITY	13.723	3.357	17.080
TULARE	595.634	233.748	829.382
TUOLUMNE	24.892	14.790	39.682
VENTURA	284.138	191.668	475.806
YOLO	355.406	74.128	429.534
YUBA	62.550	33.591	96.142
<b>TOTAL</b>	<b>26010.279</b>	<b>11239.289</b>	<b>37249.568</b>